



CONCRETE MIXER IN BRIEF

The product line includes **DAP** double-axis-paddles mixer series, **DAS** double-axis-snail mixer series and **DSS** double-spiral-snail mixer series. Every single mixer is capable of establishing concrete mixing station (plants) of **50-300m³/hod**. The product is applicable for concrete mixing in high-speed railway, roads, bridges, water-power engineering, airports, urban construction etc.

DAP double-axis-paddles mixer series include: **DAP1000, DAP1500, DAP2000, DAP3000, DAP4000, DAP6000**, etc.

DAS double-axis-snail mixer series include: **DAS1000, DAS1500, DAS2000, DAS3000, DAS4000**, etc.

DSS double-spiral-snail mixer series include: **DSS1000, DSS1500, DSS2000, DSS3000**, etc.

The technology of double-spiral-snail mixer has the international most advanced level, and raised **30-50%** efficiency compared with traditional twin-shaft mixer (double axis). In the meantime also saved energy consumption by **20%**, particularly suitable for high-grade concrete such as high-speed railway, pre-casting and **RMC** etc.

DAS - DOUBLE - AXIS - PADDLES MIXER (TWIN-SHAFT MIXER) TRADITIONAL, EXQUISITE, RELIABLE

Double-axis-paddles mixer has subsisted for more than one hundred years in the world, widely accepted and admittance, proved to be an extremely reliable product. The product has been reached up to a high standartization, component is easy to purchase and replaced, the maintenance fee is low.

The mixing arms of the double-axis-paddles mixer are thick and firm, they have various different configuration of **45°, 60°, 90°** and **120°**. The maximal aggregate size can reach up to **180 mm**, makes it capable of concrete mixing from zero to high slump and suitable for high speed railway, building, water-power engineering, road construction and mixing.

DAS - DOUBLE - AXIS - SNAIL MIXER

The mixing paddles of the double-axis-snail mixer's mixing system is spirally placed, which forms continuous outer spiral forward unit, outer spiral return unit and continuous inner spiral forward unit, inner spiral return unit. It seems like boiling when mixing, which makes it consume less time and the overall working efficiency largely improved.

The arms and paddles formed in twin-spiral create two spiral cured surface. The opposite rotation of two shaft also forces the materials to move in axial and radial ways and looks like boiling. The mixture is quickly done in homogeneity and the efficiency is increased by **30 - 50%**. This is more advanced than other mixers.

THE DOUBLE - AXIS - SNAIL MIXER IS QUICKER

The double-axis-snail allocation of paddles and unique design of paddles by patent, reduce the resistance on paddles and liner by slurry. With routine maintenance, the lifetime of paddles is more than **50.000** batches.

The mixing arms and the paddles are fixed by bolt to make it easy to adjust the gap between paddle and the drum, and to extend the paddle life. It is also easy for maintenance and replacement.

DSS - DOUBLE - SPIRAL - SNAIL MIXER / NEVER HOLD THE AXIS

NO HORIZONTAL SHAFT + NO OBSTRUCTION OF ARMS AND SHAFT = NO AGGLOMERATION OF SHAFT + IDEAL MIXING SWIRL

The double-spiral-snail mixer is essentially different to the traditional double-axis-paddles mixer. It is adopted the helical axis instead of straight-horizontal shaft. Thus, in the same body, the space of the double-spiral-snail mixer is greater, the amount of mixer material is more. In addition, the barycenter of the mixing axis is outside, the running inertia is bigger, and it can greatly improve the speed of put-into-material.

NO AXIS TO AGGLOMERATE

There is horizontal shaft in the common mixer, the line speed is low, easy to hold the axis and get agglomeration. With special „**NON-AXIS**“ structure, the double-spiral-snail mixer will not produce the phenomenon that concrete aggregate bonding center axis shaft and can't get agglomeration.

THE DOUBLE - SPIRAL - SNAIL MIXER IS QUICKEST

HIGH - EFFICIENCY

HIGH STIRRING SPEED: With the spiral arrangement of paddles, the mixer mix more intense, stirring speed is faster.

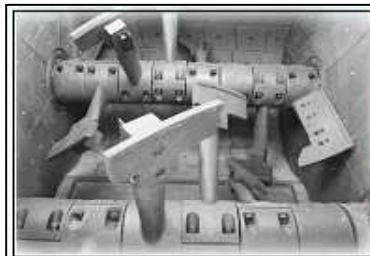
MORE MIXING - SPACE: Have no horizontal shaft and arms in the center of drum, the mixing space is bigger, the counteract of flowing is lower.

HIGHER INPUT SPEED: The barycenter of the mixing axis are outside, the running inertia is bigger, it can greatly increase the speed of input of materials.

LESS ENERGY CONSUMPTION: The peak current of input aggregate is small and short duration. The mixing time is short that can save more than **30%** energy consumption.

ENVIROMENTAL PROTECTION: With special „**NON-AXIS**“ structure in the double-spiral-snail mixer, it is not easy to hold the axis and get agglomeration, greatly reducing the concrete solid waste.

DAP - double-axis-paddles concrete mixer							
DAS - double-axis-snail concrete mixer							
DSS - double-spiral-snail concrete mixer							
Model		1000	1500	2000	3000	4000	6000
Dry loading capacity [l]		1500	2250	3000	4500	6000	9000
Fresh concrete per batch [l]		1250	1875	2500	3750	5000	7500
Compacted concrete per batch [l]		1000	1500	2000	3000	1000	6000
Compacted concrete per batch [kg]		2400	3600	4800	7200	9600	14400
Mixing Time [s]							
DAP	Ordinary concrete [s]	30	30	35	35	35	40
	High-quality concrete [s]	60	60	60	60	60	60
DAS	Ordinary concrete [s]	18	18	20	20	20	-
	High-quality concrete [s]	40	40	40	40	40	-
DSS	Ordinary concrete [s]	17	17	18	18	-	-
	High-quality concrete [s]	36	36	36	36	-	-
Discharge Time [s]							
DAP	Ordinary concrete [s]	10	10	10	10	10	10
	High-quality concrete [s]	12	12	12	12	12	12
DAS	Ordinary concrete [s]	8	8	8	8	8	-
	High-quality concrete [s]	10	10	10	10	10	-
DSS	Ordinary concrete [s]	8	8	8	8	-	-
	High-quality concrete [s]	10	10	10	10	-	-
Input Aggregate Time [s]							
DAP		10	10	10	10	10	10
DAS		10	10	10	10	10	-
DSS		6	6	6	6	-	-
Maximum Aggregate Size [mm]							
DAP	standard [mm]	80	80	80	80	80	80
	dam version [mm]	120	120	120	120	150	180
DAS	standard [mm]	80	80	80	80	80	-
	dam version [mm]	design by customer demand					
DSS	standard [mm]	80	80	80	80	-	-
	dam version [mm]	design by customer demand					
Mixing Motors							
[HP]		2x25	2x40	2x50	2x75	2x100	2x150
[kW]		2x18,5	2x30	2x37	2x55	2x75	2x110
Net Weight [kg]							
DAP		6160	7260	10100	10800	16300	17000
DAS		6200	7300	10500	11200	16800	-
DSS		6200	7300	10500	11200	-	-



DAP



DAS



DSS

DAP/DAS Installed size of the shape and baseboard

Model	A	B	C	D	E	F	G	H	U	V	W	O
DAP1000/DAS1000	2200	2848	2050	1260	1550	1970	1250	1420	950	1975	25	1070
DAP1500/DAS1500	2200	3348	2050	1260	1550	1970	1750	1420	950	1975	25	1570
DAP2000/DAS2000	2640	3465	2405	2010	1805	2350	1650	1640	1150	2315	25	1460
DAP3000/DAS3000	2640	4115	2405	2010	1805	2350	2300	1640	1150	2315	25	2110
DAP4000/DAS4000	2640	4625	2405	2010	1805	2350	2810	1640	1150	2315	25	2620
Model	I	K	L	M	N	P	T	S	X	Y	Z	R
DAP1000/DAS1000	1610	390	310	1070	200	200	500	1580	790	1127	1070	215
DAP1500/DAS1500	1610	390	310	1570	200	200	500	2080	1040	1377	1320	215
DAP2000/DAS2000	1900	500	300	1472	200	200	600	1972	986	1291	1325	310
DAP3000/DAS3000	1900	500	300	2122	200	200	600	2622	1311	1616	1650	310
DAP4000/DAS4000	1900	500	300	2632	200	200	600	3132	1566	1871	1905	310

DSS Installed size of the shape and baseboard

Model	A	B	C	D	E	F	G	H	U	V	W	O
DSS1000	2200	2900	2050	1260	1550	1970	1250	1420	950	1975	25	1070
DSS1500	2200	3400	2050	1260	1550	1970	1750	1420	950	1975	25	1570
DSS2000	2640	3695	2305	1638	1805	2350	1650	1640	1150	2215	25	1460
DSS3000	2640	4345	2305	1638	1805	2350	2300	1640	1150	2215	25	2110
DSS4000	2640	4855	2305	1638	1805	2350	2810	1640	1150	2215	25	2620
Model	I	K	L	M	N	P	T	S	X	Y	Z	R
DSS1000	1690	390	330	1150	200	200	500	1680	790	1120	1070	215
DSS1500	1690	390	330	1650	200	200	500	2180	1040	1370	1320	215
DSS2000	1900	500	350	1535	200	220	500	2105	999	1381	1325	310
DSS3000	1900	500	350	2185	200	220	500	2755	1324	1706	1650	310
DSS4000	1900	500	350	2695	200	220	500	3265	1579	1961	1905	310

This atlas only provides a reference,our company hold the change right.

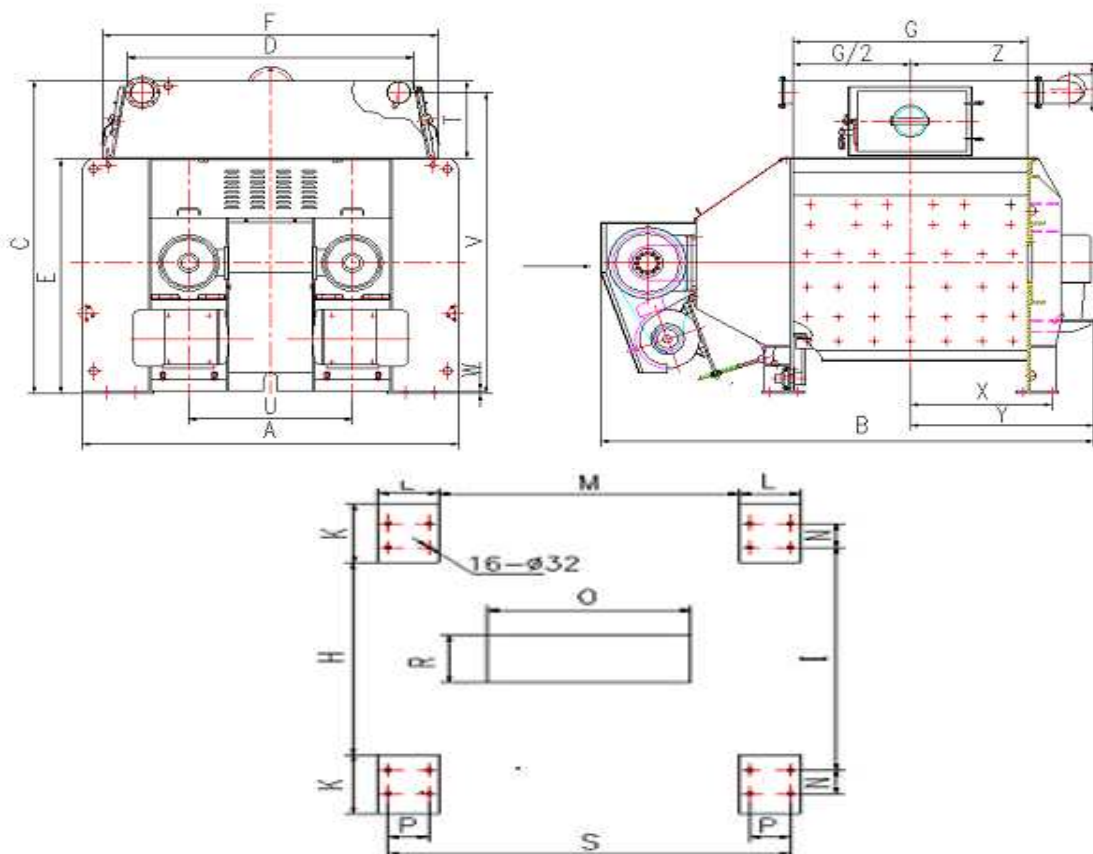


Diagram of the instalation holes of the mixer