

## MAISCHEBULL®/HYDROBULL®

POWERFUL AGITATOR SYSTEMS FROM THE STIRRING  
PROFESSIONALS FOR MIXING PITS AND HYDROLYSIS TANKS

**APPLICATION RANGE:** MAISCHEBULL® AND HYDROBULL® SYSTEMS CAN BE INSTALLED IN DIFFERENTLY SIZED PRE-PITS OR MASHING - AND HYDROLYSIS TANKS WITH CONSTANT OR ALTERNATING LIQUID LEVELS – E.G. CONCRETE TANKS WITH SOLID COVERS OF UP TO 400 M<sup>3</sup> USEABLE VOLUME FOR DIRECT FILLING BY WHEEL LOADER VIA A CHUTE IN THE COVER OR SOLID FEEDING UNIT WITH PLUG SCREW.

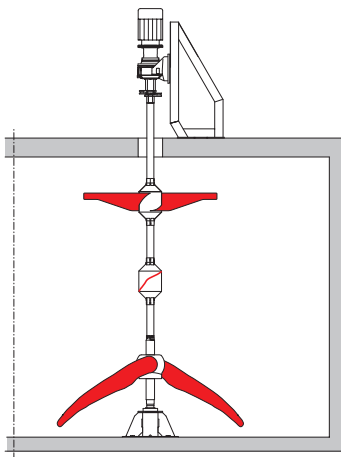
EVEN SUITABLE FOR FIBROUS SUBSTRATES WITH HIGH, DRY-SUBSTANCE CONTENT SUCH AS SOLID DUNG OR GRASS.

**STIRRING PERFORMANCE:** WITH OUR EXTENSIVE RANGE OF DIFFERENT IMPELLERS, DRIVE POWERS AND INSTALLATION OPTIONS, WE CAN SUPPLY CUSTOMIZED SOLUTIONS TO MEET YOUR PARTICULAR AGITATION NEEDS. ONE OR MORE AGITATORS ARE USED DEPENDING ON THE TANK SHAPE, SUBSTRATE PROPERTIES AND METHOD OF FILLING. REFERENCES ARE AVAILABLE FOR MIX-IN RATES OF UP TO 40 TONNES SILAGE AND SOLID DUNG PER HOUR!

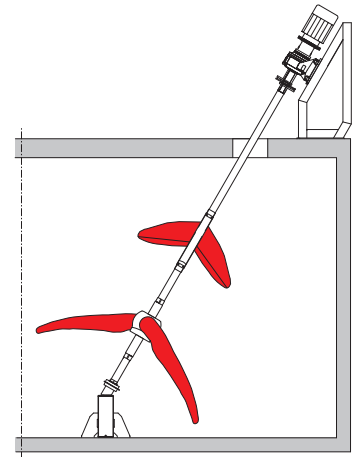
**LOW INTERNAL POWER CONSUMPTION:** THE EFFICIENCY OF OUR AGITATORS IS MAXIMIZED BY THE LARGE, THREE-Dimensionally profiled propeller and low frequency-controlled speeds. THIS IS THE ONLY WAY TO MINIMIZE THE ENERGY NEEDED TO CONVERT ELECTRICAL ENERGY INTO AGITATION – OR CIRCULATION POWER.

**SERVICEABILITY:** IMPORTANT WEARING PARTS ARE MOUNTED EXTERNALLY AND ARE EASY TO ACCESS. IT IS THEREFORE NOT NECESSARY TO REMOVE THE AGITATORS OR TO CLIMB INSIDE THE TANK FOR MAINTENANCE AND SERVICE WORK. NON-CONTACT, GAS-TIGHT, SIPHON SEAL (IN CLOSED TANKS).

**RELIABILITY / LIFE TIME:** THE MAISCHEBULL® AND HYDROBULL® AGITATOR SYSTEMS ARE ROBUST AND LONG LASTING. MANY OF THE COMPONENTS USED HAVE PROVED RELIABLE IN PRACTICAL APPLICATION FOR MORE THAN 15 YEARS. WITH WHEEL LOADER FILLING, WEAR-PRONE SOLID FEEDING UNITS ARE ALSO NOT NECESSARY.



sample application Maischebull®/Hydrobull® vertical



sample application Maischebull®/Hydrobull® inclined

#### TECHNICAL DATA:

THE OPTIMUM DRIVE POWER IS DETERMINED BY THE CHOICE OF A SUITABLE PROPELLER AND SPEED FOR THE PARTICULAR AGITATOR TASK CONCERNED:

Nominal Power [KW]	Nominal Voltage [V]	Frequency max. [Hz]	Nominal Current [A]	Nominal speed [rpm]	Protection Class Motor
15	400	50	31	approx. 38	IP 54
18,5	400	50	36,5	approx. 38	IP 54
30	400	50	55	approx. 55	IP 54

#### SAFETY:

EXPLOSIVE ATMOSPHERES PROTECTION ACCORDING ATEX II 2 G (ZONE 1 AND 2)  
 FREQUENCY CONVERTER WITH PARAMETERIZED SECURITY SOFTWARE  
 (TORQUE LIMITATION, DETECTION OF COUPLING BOLT BREAKAGE, ETC.)  
 SAFEGUARD (SPEED MONITOR AND REGULATOR FOR FLUCTUATING FILLING LEVELS)  
 SHEAR BOLT COUPLING AS THE LAST PREDETERMINED BREAKING POINT

#### DIMENSIONS AND WEIGHTS:

PROPELLER DIAMETERS: 2.650 mm, 1.900 mm OR 1.500 mm  
 (ALSO DIFFERENT PROFILES DEPENDING ON APPLICATION)  
 REQUIRED FLOOR OPENING FOR EXTRACTION OF STIRRING SHAFT: 2.200 X 650 mm  
 TOTAL WEIGHT PER AGITATOR: APPROX. 1.100 - 1.500 kg DEPENDING ON VERSION  
 HEIGHT OF THE BOTTOM-BEARING SUPPORT AND LENGTH OF STIRRING SHAFT ACCORDING TO TANK DIMENSIONS.

#### MATERIALS:

PARTS IN THE MIXED ZONE GAS/MANURE: STAINLESS STEEL 1.4571 / AISI 316 TI (V4A)  
 PARTS OUTSIDE THE TANK: STEEL GALVANIZED, PAINTED OR COATED  
 BOTTOM BEARING: SILICON CARBIDE MECHANICAL SEAL  
 PROPELLER (Ø 2.650 mm) HIGH STRENGTH WEAR-RESISTANT POLYMER WITH STEEL CORE  
 PROPELLER (Ø 1.900 OR 1.500 mm) STAINLESS STEEL 1.4301 / AISI 304 (V2A)

#### ACOUSTIC EMISSION:

56<sup>+/-5</sup> dB(A) IN 10 M DISTANCE DEPENDING ON LOCALITY

(TECHNICAL CHANGES, ERRORS AND OMISSIONS EXCEPTED)

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