

# STEPHAN MICROCUT®

Fine size reduction and emulsification at its best





# STEPHAN MICROCUT®

## CONTINUOUS FINE SIZE REDUCTION AND EMULSIFICATION AT ITS BEST

### One idea – several versions

The STEPHAN Microcut® is a multifunctional fine cutting and dispersing system. The rotor stator system is available as single stage and double stage version.

A wide range of machine layouts meets the requirements of multiple segments of the food industry. Homogeneous fine cutting and emulsifying of meat and fish can be done as well as forming emulsions and dispersing solids in liquids.

A special layout is suitable for cutting of vegetables and fruits as well as biscuit rework and frozen products.

### Benefit from the advantages:

- ✓ EFFICIENT FINE GRINDING
- ✓ PERFECT CUTTING
- ✓ HOMOGENEOUS MIXING
- ✓ OPTIMAL POWDER DISPERSING
- ✓ STABLE EMULSIONS
- ✓ CONSTANT PRODUCT QUALITY
- ✓ EASY TO OPERATE

## SIMPLY FLEXIBLE ...



# APPLICATIONS AND PROCESSING STEPS

## APPLICATIONS: (SOME EXAMPLES)

- MEAT EMULSIONS
- LIVER PÂTÉ
- EMULSIONS
- MARINADES AND SAUCES
- BABY FOOD
- VEGETABLE AND FRUIT GRINDING
- NUTS AND ALMONDS GRINDING
- BISCUIT REWORK GRINDING
- CONFECTIONARY
- FISH PRODUCTS
- HUMMUS
- YOGURT

## PROCESSES:

- CUTTING
- DISPERSING
- EMULSIFYING
- HOMOGENIZING





## DESIGN OF STEPHAN MICROCUT®:

### THE CUTTING SYSTEM

The long-life contactless rotor stator system allows premium fine cutting and emulsifying effects in the same machine.

With special tools difficult products, like sinews, soft bones and skin can be cut in the best quality.

The pre-cutter reduces the product size efficiently from 100 mm pieces down to 1-2 mm (depending on the product).

Double cutting system with feeding spiral and feeding disc for low and medium viscose products



Pre-cutting system



Feeding spiral with gear motor for high viscose products and big pieces



# STEPHAN MICROCUT® VERSIONS

## TEST FACILITIES

The test facilities at our headquarters in Hameln (Germany) are available for feasibility studies and demonstration runs of the STEPHAN Microcut®.



MC 10/12/15



MCH 20N/NVS



MCH 10/2, MCH 12/2



MCH 150/  
MCH-D 150/180



MCH 20 K/MCH 20 KVS\*



MCH 150 Inline / MCH 10 Inline



MCH 20 / MCH 15

Type		MC 10/12/15	MCH 20/150	MCH-D 150/180	MCH 12/2 MCH 10/2	MCH 20 NVS/150 NVS* MCH 20 KVS/150 KVS*
Product examples		pâté, fish, meat	pâté, fish, meat	pâté, fish, meat, baby food	emulsions, marinades, sauces	vegetables and fruits, biscuit rework, pet food
Capacity (heavily dependent on product)	(kg/h)	1200	1200/4500	4500/6000	3000 (l/h)	1200/4500
Funnel size	l	40/90/120	120/150	150/250	90/125/250	40/100
Cutting system		single	single	double	single	single*/double*
Cutting gaps	mm	0.05 / 0.2 / 0.35 / 0.5 / 0.7 / 0.9 / 1.25 / 1.5 / 1.8 / 2.0 / 3.0				
Speed	(rpm)	3000	3000	3000	3000	3000
Energy requirements Main drive	(kw)	7.5/9/11	15/30	45 or 55/75 or 90	7.5/9	15/55

\*optional: with additional pre-cutting system

The machines shown are for illustrative purposes only. Actual machine construction may vary by specification.

# Stephan Machinery

## WORLD WIDE AT YOUR DISPOSAL

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