



The **AC 15** is designed for use in processing light- to medium weight parts.



A universal, powerful milling head for high-performance machining with great shock-absorbing properties.

The **AC 14** provides powerful performance with maximum precision!

This is thanks to our own specially developed, water-cooled motor system and flexibility in terms of spindle versions.

The all-rounder of these milling heads.

C-AXIS SWIVEL RANGE (max.) * = dependent on connection construction	 +/- 360 °
C-AXIS SPEED (max.)	$\text{r/s}$ 90
C-AXIS ACCELERATION (max.)	$\text{r/s}^2$ 600
C-AXIS CLAMPING TORQUE	<b>Nm</b> 1.600
C-AXIS TORQUE	<b>Nm</b> 800
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
A-AXIS SWIVEL RANGE (max.)	 +/- 100 °
A-AXIS SPEED (max.)	$\text{r/s}$ 90
A-AXIS ACCELERATION (max.)	$\text{r/s}^2$ 600
A-AXIS CLAMPING TORQUE	<b>Nm</b> 1.600
A-AXIS TORQUE	<b>Nm</b> 800
A-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 550
max. SPINDLE DIAMETER	<b>mm</b> 190/200

C-AXIS SWIVEL RANGE (max.) * = dependent on connection construction	 +/- 360 °
C-AXIS SPEED (max.)	$\text{r/s}$ 90
C-AXIS ACCELERATION (max.)	$\text{r/s}^2$ 600
C-AXIS CLAMPING TORQUE	<b>Nm</b> 2.000
C-AXIS TORQUE	<b>Nm</b> 1.000
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,2
A-AXIS SWIVEL RANGE (max.)	 +/- 100 °
A-AXIS SPEED (max.)	$\text{r/s}$ 90
A-AXIS ACCELERATION (max.)	$\text{r/s}^2$ 600
A-AXIS CLAMPING TORQUE	<b>Nm</b> 2.000
A-AXIS TORQUE	<b>Nm</b> 1.000
A-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,2
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 600
max. SPINDLE DIAMETER	<b>mm</b> 230



## MILLING HEAD AC 6



Heavy duty milling made easy!

This is the task of the **AC 6**.



Its highly rigid structure makes it reliable and precise, even put under maximum strain from HSC milling.


<b>C-AXIS SWIVEL RANGE (max.)</b> <small>* = dependent on connection construction</small>	 <b>+/- 360 ° *</b>
<b>C-AXIS SPEED (max.)</b>	<b>°/s</b> 71,5
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 6.000
<b>C-AXIS TORQUE</b>	<b>Nm</b> 1.500
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/- 3
<b>A-AXIS SWIVEL RANGE (max.)</b>	 <b>+125° /- 95°</b>
<b>A-AXIS SPEED (max.)</b>	<b>°/s</b> 71,5
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 6.000
<b>A-AXIS TORQUE</b>	<b>Nm</b> 1.500
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/- 3
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 950
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 230/275

## MILLING HEAD EVOLUTION 3D

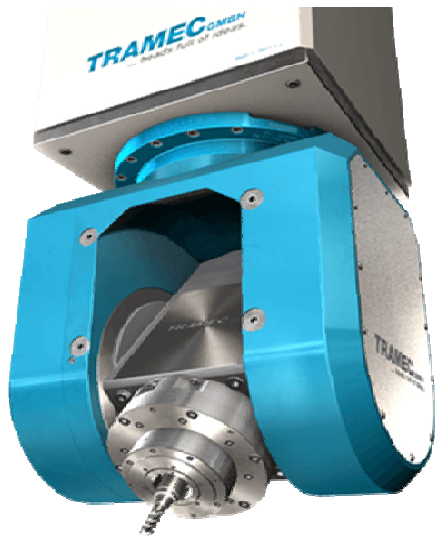


The **EVOLUTION 3D** has 3 simultaneously capable axes. Which are optimal for high-performance cutting off structural components in the aircraft- and automotive industry. Because of its unique construction it has a very low self-weight. Thus highest accelerations within minimum moved mass can be reached.



C-AXIS SWIVEL RANGE (max.) * = dependent on connection construction	 +/- 360 ° *
C-AXIS SPEED (max.)	<b>°/s</b> 360
sC-AXIS ACCELERATION (max.)	<b>°/s<sup>2</sup></b> 800
C-AXIS CLAMPING TORQUE	<b>Nm</b> 6.000
C-AXIS TORQUE	<b>Nm</b> 1.500
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 1,8
A-AXIS SWIVEL RANGE (max.)	 +/- 110 °
A-AXIS SPEED (max.)	<b>°/s</b> 360
A-AXIS ACCELERATION (max.)	<b>°/s<sup>2</sup></b> 800
A-AXIS CLAMPING TORQUE	<b>Nm</b> 6.000
A-AXIS TORQUE	<b>Nm</b> 1.500
A-AXIS MEASURING SYSTEM ACCURACY	" +/- 1,8
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 850
max. SPINDLE DIAMETER	<b>mm</b> 230 only special spindle

B-AXIS SWIVEL RANGE (max.)	 +/- 18 °
B-AXIS SPEED	<b>°/s</b> 360
B-AXIS ACCELERATION (max.)	<b>°/s<sup>2</sup></b> 800
B-AXIS CLAMPING TORQUE	<b>Nm</b> 3.000
B-AXIS TORQUE	<b>Nm</b> 760
B-AXIS MEASURING SYSTEM ACCURACY	" +/-2,5

## MILLING HEAD AC 11





Small, light, precise and yet powerful -  
that's the **AC 11**.

<b>C-AXIS SWIVEL RANGE (max.)</b> <small>* = dependent on connection construction</small>	 <b>+/- 360 ° *</b>
<b>C-AXIS SPEED (max.)</b>	<b>°/s</b> 300
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 456 pressureless 820 with boost
<b>C-AXIS TORQUE</b>	<b>Nm</b> 350
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/- 3,3
<b>A-AXIS SWIVEL RANGE (max.)</b>	 <b>+/- 110 °</b>
<b>A-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 456 pressureless 820 with boost
<b>A-AXIS TORQUE</b>	<b>Nm</b> 350
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/- 3,3
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 265
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 170

## MILLING HEAD AC 7





Simply high-tech. Its lightweight, rigid structure and universal usability makes it perfect for processing medium- to large-sized components. The **AC 7** sets standards in the world of milling heads.

<b>C-AXIS SWIVEL RANGE (max.)</b> <small>* - dependent on connection construction</small>	 +/- 360 ° *
<b>C-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 1200
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 3.000
<b>C-AXIS TORQUE</b>	<b>Nm</b> 570
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 3,3
<b>A-AXIS SWIVEL RANGE (max.)</b>	 +/- 110 °
<b>A-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 1200
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 3.000
<b>A-AXIS TORQUE</b>	<b>Nm</b> 570
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 3,3
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 365
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 190/200

## MILLING HEAD AC 7M





Pure high-tech. Low weight, structural rigidity and universal applicability in the machining of medium and large components. The **AC 7M** is more flexible due to the use of spindles up to 230 mm and the HSK-A100 tool holder.

<b>C-AXIS SWIVEL RANGE (max.)</b> * - dependent on connection construction	 +/- 360 ° *
<b>C-AXIS SPEED (max.)</b>	$^{\circ}/s$ 360
<b>C-AXIS ACCELERATION (max.)</b>	$^{\circ}/s^2$ 800
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 2.000 / 4.000
<b>C-AXIS TORQUE</b>	<b>Nm</b> 1.020
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 2,5
<b>A-AXIS SWIVEL RANGE (max.)</b>	 +/- 110 °
<b>A-AXIS SPEED (max.)</b>	$^{\circ}/s$ 360
<b>A-AXIS ACCELERATION (max.)</b>	$^{\circ}/s^2$ 800
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 2.000 / 4.000
<b>A-AXIS TORQUE</b>	<b>Nm</b> 1.058
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 2,5
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 494
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 170/230

## MILLING HEAD AC 8M 150





The modular structure of the drives provides the **AC 8M** with flexibility and helps it perform well in HSC milling. Because of the AC 8M's typically Tramec monolithic design and its relatively low net weight, even challenges in HCS steel processing which exceed the norm are conquered.

<b>C-AXIS SWIVEL RANGE (max.)</b> <small>* = dependent on connection construction</small>	 <b>+/- 360 ° *</b>
<b>C-AXIS SPEED (max.)</b>	<b>°/s 360</b>
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup> 800</b>
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm 6.000</b>
<b>C-AXIS TORQUE</b>	<b>Nm 750 / 1.500</b>
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	<b>" +/- 3,3</b>
<b>A-AXIS SWIVEL RANGE (max.)</b>	 <b>+/- 110 °</b>
<b>A-AXIS SPEED (max.)</b>	<b>°/s 360</b>
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup> 800</b>
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm 6.000</b>
<b>A-AXIS TORQUE</b>	<b>Nm 750 / 1.500</b>
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	<b>" +/- 3,3</b>
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg 720</b>
<b>max. SPINDLE DIAMETER</b>	<b>mm 230/275</b>

## MILLING HEAD AC 8M 300



The **AC8 M300** achieve an outstanding performance with a maximum on flexibility. According to its powerful direct drives with 3000 Nm (S1) torque, the AC8 M300 is the optimal solution for titanium and steel machining.







C-AXIS SWIVEL RANGE (max.) * - dependent on connection construction	 +/- 360 °
C-AXIS SPEED (max.)	$^{\circ}/s$ 360
C-AXIS ACCELERATION (max.)	$^{\circ}/s^2$ 800
C-AXIS CLAMPING TORQUE	<b>Nm</b> 6.000
C-AXIS TORQUE	<b>Nm</b> 3.000
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
A-AXIS SWIVEL RANGE (max.)	 +/- 110 °
A-AXIS SPEED (max.)	$^{\circ}/s$ 360
A-AXIS ACCELERATION (max.)	$^{\circ}/s^2$ 800
A-AXIS CLAMPING TORQUE	<b>Nm</b> 6.000
A-AXIS TORQUE	<b>Nm</b> 3.000
A-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 980
max. SPINDLE DIAMETER	<b>mm</b> 230/275



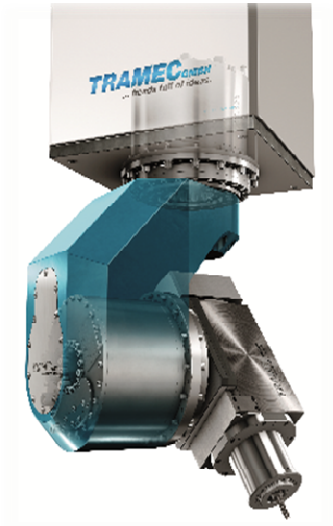
## MILLING HEAD AC 16



Due to the sleek build of the **AC 16** it can be used in compact machines for efficient 5-sided milling.

C-AXIS SWIVEL RANGE (max.) * = dependent on connection construction	 +/- 360 ° *
C-AXIS SPEED (max.)	 360
C-AXIS ACCELERATION (max.)	 600
C-AXIS CLAMPING TORQUE	<b>Nm</b> 456 pressureless 820 with boost
C-AXIS TORQUE	<b>Nm</b> 350
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
A-AXIS SWIVEL RANGE (max.)	 +/- 110 °
A-AXIS SPEED (max.)	 360
A-AXIS ACCELERATION (max.)	 600
A-AXIS CLAMPING TORQUE	<b>Nm</b> 456 pressureless 820 with boost
A-AXIS TORQUE	<b>Nm</b> 350
A-AXIS MEASURING SYSTEM ACCURACY	" +/- 3,3
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 220
max. SPINDLE DIAMETER	<b>mm</b> 170

## MILLING HEAD TAE 225



The **TAE 225** is a modular structured milling head for easy processing in aluminium, composites and CFRP.


<b>C-AXIS SWIVEL RANGE (max.)</b> * = dependent on connection construction	 +/- 360 ° *
<b>C-AXIS SPEED (max.)</b>	<b>"/s</b> 360
<b>C-AXIS ACCELERATION (max.)</b>	<b>"/s<sup>2</sup></b> 1000
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 360 pressureless 600 with boost
<b>C-AXIS TORQUE</b>	<b>Nm</b> 200
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 5
<b>A-AXIS SWIVEL RANGE (max.)</b>	 +/- 110 °
<b>A-AXIS SPEED (max.)</b>	<b>"/s</b> 360
<b>A-AXIS ACCELERATION (max.)</b>	<b>"/s<sup>2</sup></b> 1000
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 360 pressureless 600 with boost
<b>A-AXIS TORQUE</b>	<b>Nm</b> 200
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 5
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 105
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 150/150

## MILLING HEAD TQ1



Thanks to its special developed slim design **TQ1** machine work pieces with very deep cavities in casting and mold effective and precisely.

According to continuous clamping systems the axes can be freely positioned, so that even HSC-machining in steel will be mastered safely.

<b>C-AXIS SWIVEL RANGE (max.)</b> * = dependent on connection construction	 +/- 360 ° *
<b>C-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 1.900
<b>C-AXIS TORQUE</b>	<b>Nm</b> 68
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 3,3
<b>A-AXIS SWIVEL RANGE (max.)</b>	 +/- 110 °
<b>A-AXIS SPEED (max.)</b>	<b>°/s</b> 300
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 600
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 1.900
<b>A-AXIS TORQUE</b>	<b>Nm</b> 109
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	" +/- 3,3
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 220
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 170/200



The **AC 10** can be found again in the field of heavy machining.

The **AC 10** offers almost all possibilities in the classic environment of machining by using the latest drive technology.

Tramec is once again setting standards here.

The **AC 10** has a very high rigidity and this with its, nevertheless, relatively low own weight.

Even the very high demands of titanium machining can be met by the **AC 10**.


<b>C-AXIS SWIVEL RANGE (max.)</b> <small>* = dependent on connection construction</small>	 +/- 360 ° *
<b>C-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>C-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 800
<b>C-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 6.000
<b>C-AXIS TORQUE</b>	<b>Nm</b> 3.000
<b>C-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/-2,5
<b>A-AXIS SWIVEL RANGE (max.)</b>	 +/- 110 °
<b>A-AXIS SPEED (max.)</b>	<b>°/s</b> 360
<b>A-AXIS ACCELERATION (max.)</b>	<b>°/s<sup>2</sup></b> 800
<b>A-AXIS CLAMPING TORQUE</b>	<b>Nm</b> 6.000
<b>A-AXIS TORQUE</b>	<b>Nm</b> 3.000
<b>A-AXIS MEASURING SYSTEM ACCURACY</b>	<b>"</b> +/-2,5
<b>WEIGHT WITHOUT SPINDLE (approx.)</b>	<b>Kg</b> 1475
<b>max. SPINDLE DIAMETER</b>	<b>mm</b> 350



A drive unit that can be used anywhere!

An integrated drive unit capable of simultaneous processing with an infinitely variable clamping and measuring system, also suitable for simultaneous usage.

If you're looking for precise positioning without any compromises, this is the product to use.

C-AXIS SWIVEL RANGE (max.) * = dependent on connection construction	 +/- 360 ° *
C-AXIS SPEED (max.)	$^{\circ}/s$ 360
C-AXIS ACCELERATION (max.)	$^{\circ}/s^2$ 1000
C-AXIS CLAMPING TORQUE	<b>Nm</b> 360 pressureless 600 with boost
C-AXIS TORQUE	<b>Nm</b> 200
C-AXIS MEASURING SYSTEM ACCURACY	" +/- 5
WEIGHT WITHOUT SPINDLE (approx.)	<b>Kg</b> 32