



**RACEFACE 44/32/22T TRIPLE CHAINRING COMPATIBILITY ON RACEFACE / SHIMANO / TRUVATIV / FSA CRANKSETS**

Fall 2009

**PREFACE:** The vast majority of current mountain bike cranksets share the same chainring bolt circle diameter (BCD) of 104/64mm (outer+middle/inner). This implies that any chainrings and cranksets featuring these mounting standards are compatible, which is false. While having this standardized mounting pattern will certainly allow most chainrings to be mounted to most cranksets, there are other critical design aspects engineered into cranksets and chainrings that have a huge effect on the function and performance of the front shifting system. These are often different, brand to brand and even model to model within the same brand. The two most important aspects when determining whether a chainring is compatible with a given crankset are:

**"SPACING":** This is simply the distance between each chainring when they are mounted to the crank. Variation in spacing can come from specific chainring designs and crank arm designs.

**"CLOCKING":** This is the rotational position that the teeth on each chainring sit in when they are mounted to the crank. This varies greatly brand to brand / model to model.

\* Combining chainrings and cranksets with significant differences in "spacing" and/or "clocking" will result in severe shifting function problems such as chain skipping / chain jamming between rings / over or under-shifting / derailment / chain suck.

Please consult the chart below to assist in selecting an appropriate Race Face chainring for aftermarket replacement on the world's most popular cranksets. Please note that we have created application specific Turbine series chainrings for both Shimano and Truvativ cranksets so that riders with these brands of cranksets can enjoy the optimized shifting of our latest Turbine chainring technology.

I have this triple ring 44/32/22T crankset →	Crankset Models																			
	RACEFACE →2009 NEXT SL / NEXT / DEUS (equipped with "Turbo" rings stock)	RACEFACE →2008 NEXT / DEUS AC (equipped with "Team" rings stock)	RACEFACE ATLAS SERIES (AM / FR)	RACEFACE DIMOLIUS DH	RACEFACE EVOLVE SERIES (AC / DM)	RACEFACE RIDE SERIES (AC / AM / DH)	SHIMANO XTR FC-M970	SHIMANO DEORE XT FC-M770	SHIMANO SLX FC-M860	SHIMANO DEORE LX FC-681T	SHIMANO DEORE XT FC-M780	SHIMANO SAINT FC-M800-308&3	SHIMANO FONE FC-M800-3	SHIMANO DEORE LX FC-M800-308&3	SHIMANO DEORE FC-M800	SHIMANO DEORE FC-M837-330	TRUVATIV - ALL CRANK MODELS: MOTO STYL / FSA / BAZE / B&D / POLYELLER / HUSBERGEL / RUKIMON	FSA / K-POURCE LIGHT / TEAM ISSUE	FSA AFTERBURNER / VORIVE / MOTO	FSA GRAVITY LIGHT / CAP / MOTO X
↓ Can I install this chainring? ↓																				
RACEFACE Turbine 44T	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
RACEFACE Turbine 32T	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
RACEFACE Turbine 22T	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
RACEFACE all other 44T (Team / Race / Evolve / Ride)	☺☺	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
RACEFACE all other 32T (Team / Race / Evolve / Ride)	☺☺	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
RACEFACE all other 22T (Team / Race / Evolve / Ride)	☺☺	↕☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "S" 44T (Optimized for Newer Shimano Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "S" 32T (Optimized for Newer Shimano Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "S" 22T (Optimized for Newer Shimano Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "T" 44T (Optimized for all Truvativ Crank Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "T" 32T (Optimized for all Truvativ Crank Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺
Race Face Turbine Type "T" 22T (Optimized for all Truvativ Crank Models)	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺	☺☺

**LEGEND:**

- ↕☺ = PLUG AND PLAY. CLOCKING AND SPACING MATCHED. COMPATIBLE AND INTERCHANGEABLE AS INDIVIDUAL RINGS OR AS COMPLETE SETS.
- ☺☺ = FULL COMPATIBILITY AND/OR OPTIMIZED FUNCTION CAN ONLY BE ACHIEVED IF THE FULL SET OF 3 RINGS (44/32/22T) ARE INSTALLED TOGETHER ON THE LISTED CRANKSET. (WARNING: IF ONLY 1 OR 2 CHAINRINGS IN THIS CATEGORY ARE INSTALLED MODERATE TO SEVERE SHIFTING FUNCTION PROBLEMS POSSIBLE)
- ☺☺ = NOT COMPATIBLE - DO NOT USE IN ANY COMBINATION. SPACING AND/OR CLOCKING ARE SIGNIFICANTLY DIFFERENT. MODERATE TO SEVERE SHIFTING FUNCTION PROBLEMS LIKELY.