**CNC Machining** 

# Weerg.

## Steel C45

C45E / CK45 / 1.1191 / AISI 1045 / BS 080M46 / AFNOR XC48 / UNE F1140

C45 steel (AISI 1045) is the best choice for strength and versatility! Exceptional tensile strength, excellent machinability and remarkable versatility.



## **Material properties**

	0,02	Ωmm²/m
	40-45	W/mK
	1550	°C
ISO 6508	175-230	НВ
ISO 148	17,5	kJ/m²
ISO 6892	210	GPa
ISO 6892	460	MPa
ISO 6892	15	%
ISO 6892	650	MPa
	7,8	g/cm³
	ISO 6892 ISO 6892 ISO 6892 ISO 148	ISO 6892 650 ISO 6892 15 ISO 6892 460 ISO 6892 210 ISO 148 17,5 ISO 6508 175-230 40-45

### Main alloy elements

Iron - Carbon - Manganese - Silicon

#### Maximum dimensions

300x300x150 mm (11.8x11.8x5.9 in)

#### **Tolerances**

ISO 2768-1 fine (f) or medium (m) class

#### **Applications**

Ideal for components requiring strong and durable materials, such as gears, shafts and axles. When heat-treated, it is suitable for applications where parts are exposed to friction, abrasion and wear, resulting in reduced maintenance costs and increased service life.

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