



Online Seminar Vocabulary List Italiano

Term	Definition	Italiano	Notes
bearing	a machine component connecting parts moving at different speeds (e.g. shaft & housing)	Cuscinetto	
rolling contact	describes the nature of the contact area in rolling-element bearings	contatto di puro rotolamento	
friction	a resistance to motion	attrito	
wear	a loss of material and/or alteration of surfaces due to relative motion between two parts	usura	
lubricant	a substance used to separate solid surfaces to reduce friction and wear; typically oil or grease	lubrificante	
deep groove ball bearing	a type of bearing using balls	cuscinetto radiale a sfere	
angular contact ball bearing	a type of bearing using balls	cuscinetto a contatto angolare a sfere	
spherical ball bearing	a type of bearing using balls	cuscinetto autoallineante a sfere	
four point contact ball bearing	a type of bearing using balls	cuscinetto a sfere 4 Punti di contatto	
cylindrical roller bearing	a type of bearing using rollers	cuscinetto a rulli cilindrici	
needle bearing	a type of bearing using rollers	cuscinetto a rullini	
tapered roller bearing	a type of bearing using rollers	cuscinetto conico	
spherical roller bearing	a type of bearing using rollers	cuscinetto a rulli sferici	
curved contact area	describes the form of the contact surface inside a rolling-element bearing	Area di contatto curva	
slippage distribution	describes the location and extent of slipping in the contact of a rolling-element bearing	distribuzione di slittamento	
premature	too early	premature	
reinforced	with increased strength	rinforzato	
lubrication film	a thin layer of lubricant between solid bodies	film di lubrificazione	
perpendicular pattern	forming an angle of 90° visual appearance	perpenducular forma / schema	
shoulder	a change in cross section, e.g. of a shaft	spallamento	
life time	the time until failure of a part	Durata	
cage	a part that holds the rolling elements in a rolling-contact bearing	Gabbia	
stiffness	the resistance against elastic deformation	Rigidezza	
fiber-reinforced	a compound material consisting of a matrix (e. g. plastic) and fibers of a stronger material (e.g. glass)	rinforzato con fibre (di vetro)	
admissible	what can be allowed	ammissibile	
sheet metal	metal that has been formed into thin, flat pieces	lamiera	
brass	an alloy of copper and zinc	Ottone	

misalignment	deviation from ideal positioning	disallineamento	
locating / non-locating arrangement	type of bearing arrangement	cuscinetto fisso /libero	
adjusted arrangement	type of bearing arrangement	accoppiamento forzato	
floating arrangement	type of bearing arrangement	accoppiamento libero	
assembly	a group of mutually dependent and compatible components (e.g. tire and rim)	assieme	
embracement	an arrangement that leads to the application of additional forces	precarico	
thermal expansion /contraction	a change in size due to changing temperature (warmer/cooler)	dilatazione/riduzione e termica	
clearance	a space for free movement	gioco	
roughness	measure of the texture of a surface; the vertical deviation of the surface from its ideal form	rugosità	
fit	the clearance between two mating parts, defines their ability to move relative to one another once assembled (clearance fit, transition fit, interference fit)	accoppiamento	
radial runout	results in a part rotating slightly off-center which causes oscillation when spinning		
wear inhibition	prevention of wear	prevenzione all'usura	
heat dissipation	the removal of heat out of a system	disipazione del calore	
viscosity	the resistance of fluids to shear stress and the resultant change of shape	viscosità	
additive	a component added to a lubricant to modify its properties	additivi	
inclusion	for steels, a non-metallic impurity	inclusioni	
separation	components of a liquid becoming distinct	separazione	
through-hardened steel	steel that has been hardened throughout in order to increase its strength	Tempra Passante	
case-hardened steel	steel that has only been hardened on the surface with the bulk of the material remaining soft	Tempra Cementazione	
pitting	the loss of flakes of material from a surface	Pitting (fatica di contatto)	
fatigue load limit	a parameter of bearing strength; the load level below which metal fatigue will not occur	limite di Fatica	
static load rating / static capacity	a parameter of bearing strength; the load that a bearing can endure before the raceway suffers a permanent distortion of 0,01% the diameter of the rolling element	Capacità Carico Statica	
dynamic load rating / dynamic capacity	a parameter of bearing strength; the load that a bearing can theoretically endure for one million revolutions	Capacità Carico Dinamica	
elastic deformation	a deformation that disappears after the external force is removed	Deformazione elastica	