

ACESSÓRIOS

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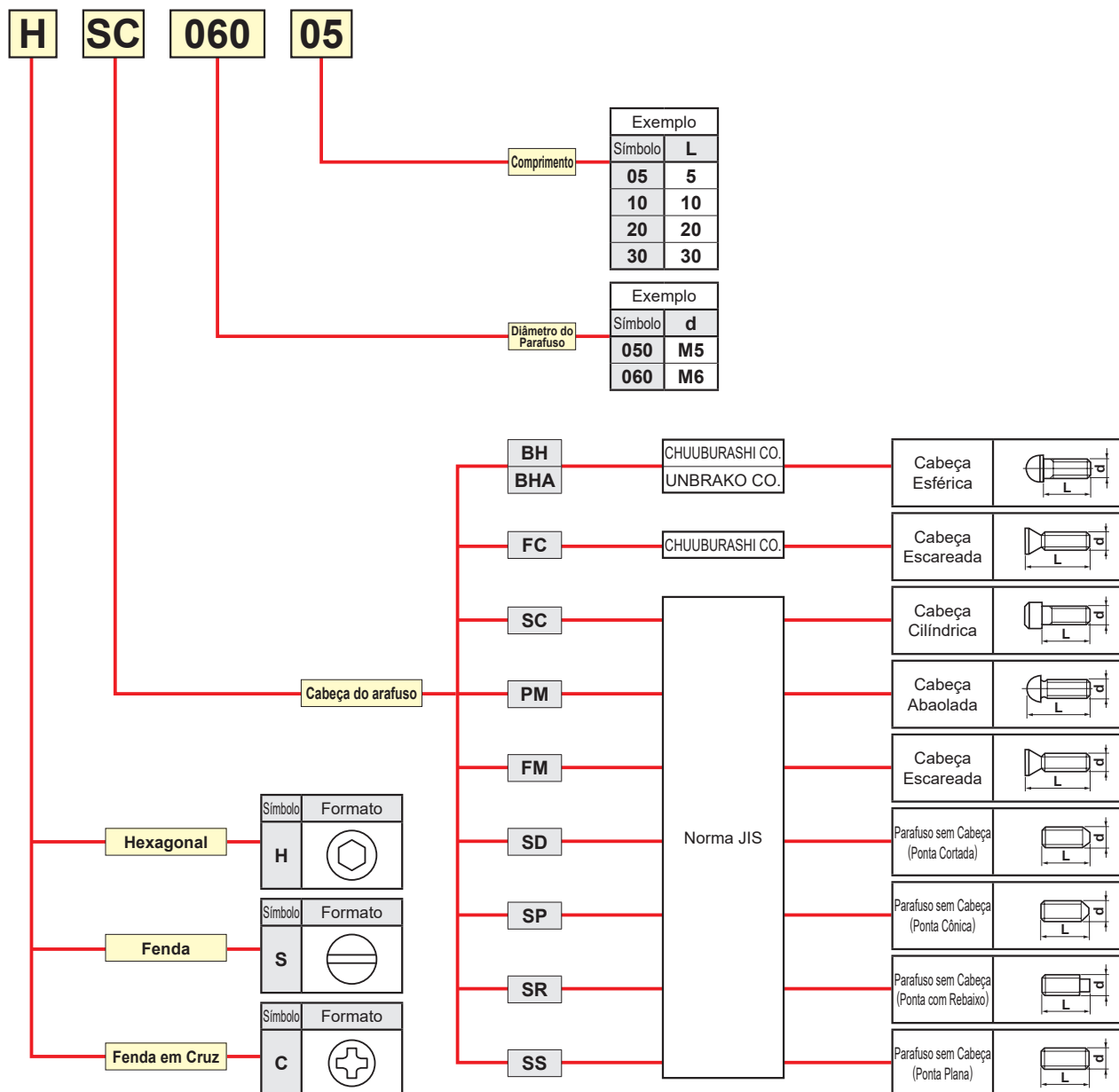
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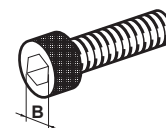
EXEMPLOS DE REFERÊNCIA PARA PEDIDO DE PARAFUSOS DE FIXAÇÃO, PARAFUSOS DE MONTAGEM, CHAVES, etc.

IDENTIFICAÇÃO DE PARAFUSOS DE FIXAÇÃO E PARAFUSOS DE MONTAGEM (Identificação rosca métrica direita)

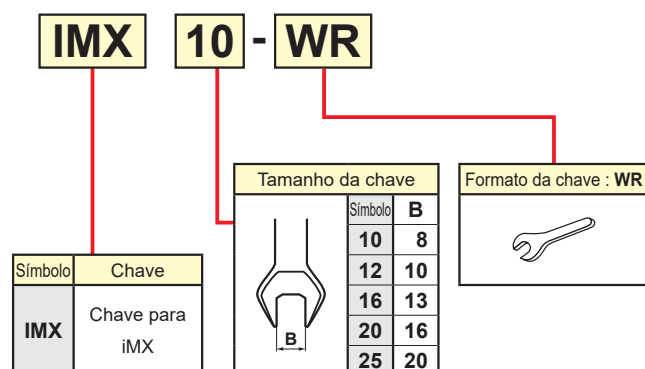
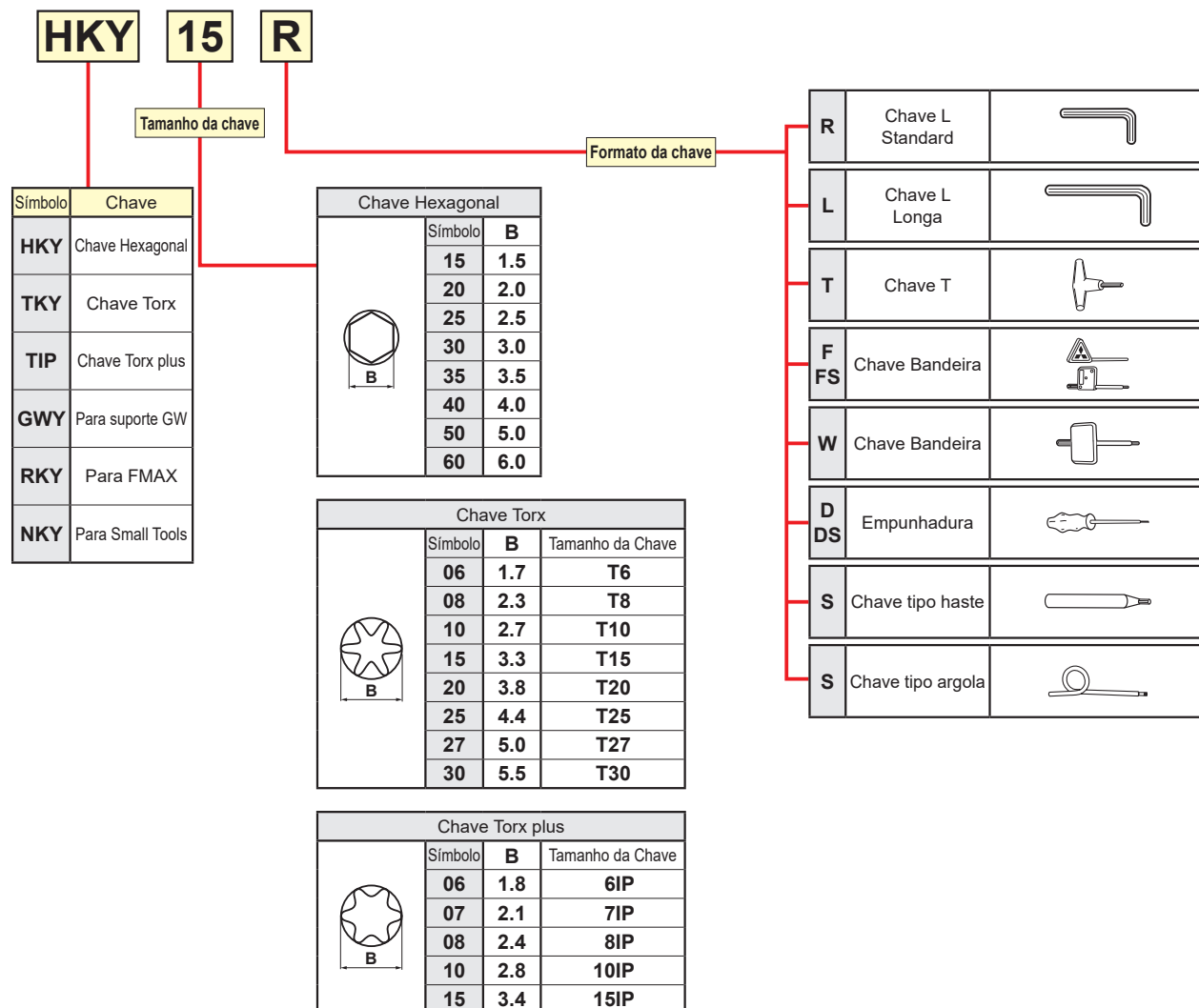


Exemplos de furo hexagonal

Diâmetro	Passo	Dimensão B			
		HBH	HFC	HSC	HS
M2	0.4	—	—	1.5	0.9
M2.5	0.45	—	—	2.0	1.3
M3	0.5	2.0	2.0	2.5	1.5
M4	0.7	2.5	2.5	3.0	2.0
M5	0.8	3.0	3.0	4.0	2.5
M6	1.0	4.0	4.0	5.0	3.0
M8	1.25	5.0	5.0	6.0	4.0
M10	1.5	6.0	6.0	8.0	5.0

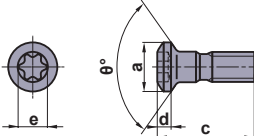
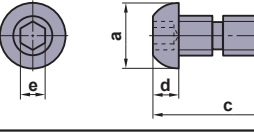
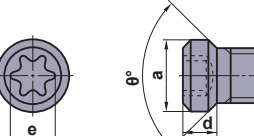
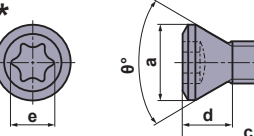
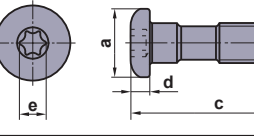
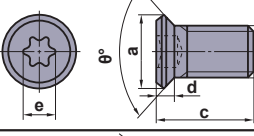
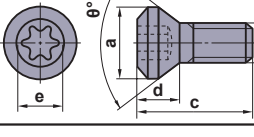
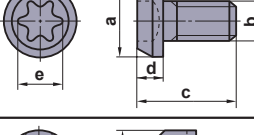
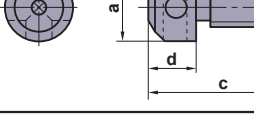


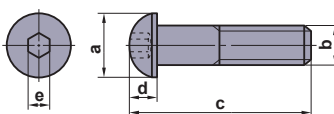
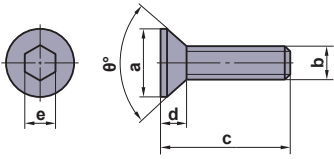
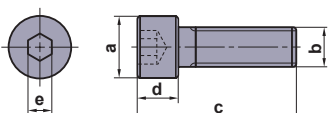
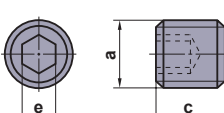
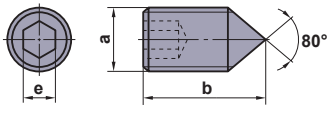
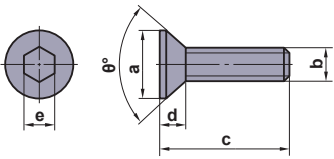
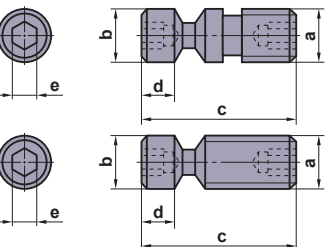
■ IDENTIFICAÇÃO DA CHAVE



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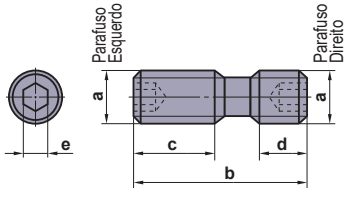
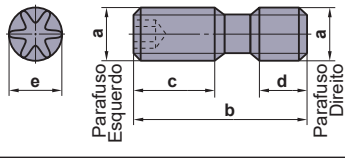
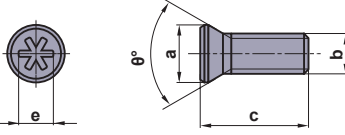
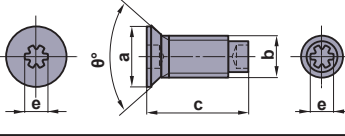
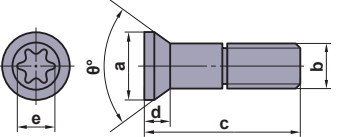
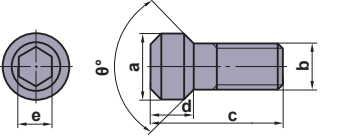
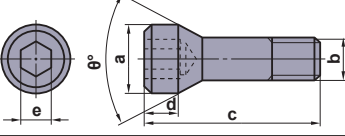
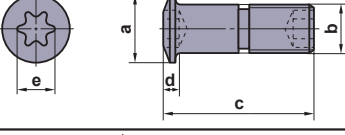
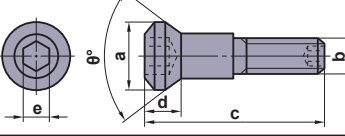
PARAFUSO DE FIXAÇÃO

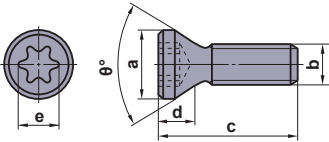
Formato	Referência para Pedido	Dimensões (mm)					Ângulo θ°	Tamanho da Chave	Torque (N·m)	Suporte
		a	b	c	d	e				
	AJS3010T10	5.0	M3×0.5	10.0	1.5	2.8	120	T10	2.5	SXZC(☉C031), AJX(☉L230), PMC(☉L326)
	AJS4012T15	7.0	M4×0.7	12.0	2.2	3.4	120	T15	3.5	AJX(☉L230), PMC(☉L326)
	AJS5014T25	8.0	M5×0.8	14.0	2.7	4.5	120	T25	7.5	AJX(☉L230)
	CS3(Para uso com C3)	7.0	M4×0.7	14.6	2.6	2.5	—	—	2.2	FCTU1/2(☉E034)
	CS4(Para uso com C4)	9.0	M5×0.8	15.4	3.4	3.0	—	—	3.3	FCTU1/2(☉E034)
 	CS200T	3.2	M2×0.4	5.0	1.6	1.8	90	T6	0.6	FSTU1/2(☉E033), SBR(☉M017)
	CS250T	3.7	M2.5×0.45	6.0	1.8	2.4	90	T8	1.0	FSTU1/2(☉E033), FA/VSP(☉M013), SBR(☉M017)
	* CS250560T	3.9	M2.5×0.45	5.2	2.5	2.4	60	T8	1.0	BRP(☉L274)
	CS300890T	4.1	M3×0.5	8.0	2.1	2.4	90	T8	1.0	FSTU1/2(☉E033), DCCCR(☉L281), STFP(☉M011)
	* CS350760T	5.5	M3.5×0.6	7.0	4.0	3.4	60	T15	3.5	BRP(☉L274)
	* CS350860T	5.5	M3.5×0.6	8.4	4.0	3.4	60	T15	3.5	BRP(☉L274), MMTI(☉G032)
	CS350990T	4.8	M3.5×0.6	9.0	2.4	2.8	90	T10	2.5	GY(☉F017), OCTACUT(☉L258), DCCCR(☉L281)
	CS401160T	5.7	M4×0.7	11.0	4.5	3.4	60	T15	3.5	VOX400(☉L112)
	CS451190T	6.3	M4.5×0.75	11.0	2.9	3.9	90	T20	5.0	SDJE, SDNE(☉C032)
	CS501290T	7.0	M5×0.8	11.0	3.5	4.5	90	T25	7.5	OCTACUT(☉L258)
	* CS5015060T	7.2	M5×0.8	15.0	2.4	3.9	60	T20	5.0	AHX640S(☉L072)
	DC0520T	8.5	M5×0.8	22.5	2.5	3.4	—	T15	3.5	DCLN(☉C008), A☉☉☉-DTFN(☉E022)
	DC0621T	10.5	M6×1.0	25.0	4.0	3.9	—	T20	5.0	DCLN(☉C008), A☉☉☉-DCLN(☉E021)
	FC400890T	5.6	M4×0.7	7.5	1.3	2.8	90	T10	2.5	STGE(☉C033), STFE(☉C033, E051), SMG(☉F138)
	GY05016S	8.7	M5×0.8	16.0	3.5	3.9	90	T20	5.0	GYAR/L20, GYAR/L25(☉F087)
	GY06013M	12.0	M6×1.0	18.0	5.0	5.6	—	T30	6.0	GYHR/L(☉F023), GYDR/L(☉F087)
	KS1	7.0	M4×0.7	14.0	5.0	—	—	—	—	PTFNR/L(☉M007), CSKPR(☉M009)
	KS2	10.0	M6×1.0	18.0	7.0	—	—	—	—	PTFNR/L(☉M007), CSKPR(☉M009)
	KS1S	7.0	M4×0.7	14.0	5.0	—	—	—	—	SBR(☉M017)
	KS2S	10.0	M6×1.0	18.0	7.0	—	—	—	—	SBR(☉M017)

Formato	Referência para Pedido	Dimensões (mm)					Ângulo θ°	Tamanho da Chave	Torque (N·m)	Suporte
		a	b	c	d	e				
	HBH06012	10.5	M6×1.0	15.3	3.3	4.0	—	—	7.0	PMF(⊙L328)
	HBH06020	10.5	M6×1.0	23.3	3.3	4.0	—	—	7.0	MGH(⊙F136), MTH(⊙G028)
	HBH08025	14.0	M8×1.25	29.4	4.4	5.0	—	—	9.0	PTFN(⊙M007), CSKP(⊙M009), STGP(⊙M011)
	HBH08030	14.0	M8×1.25	34.4	4.4	5.0	—	—	9.0	PTFN, PCLN(⊙M007)
	HBH08040	14.0	M8×1.25	48.4	4.4	5.0	—	—	9.0	FF3000(⊙L098)
Inclui itens com o mesmo formato de produtos disponíveis no mercado (norma JIS).										
	HFC03006	6.0	M3×0.5	8.0	1.7	2.0	—	—	2.5	MMTI(⊙G032)
	HFC03008	6.0	M3×0.5	8.5	1.7	2.0	—	—	2.5	MMTE(⊙G023)
	HFC04008	8.0	M4×0.7	13.0	2.3	2.5	—	—	3.0	MMTI(⊙G032)
	HFC04010	8.0	M4×0.7	16.0	2.3	2.5	—	—	3.0	MMTE(⊙G023)
	HSC02006	3.8	M2×0.4	8.0	2.0	1.5	—	—	1.4	FA0, FV0(⊙M013)
	HSC02506	4.5	M2.5×0.45	8.5	2.5	2.0	—	—	2.2	FA1, FV1(⊙M013)
	HSC03010	5.5	M3×0.5	13.0	3.0	2.5	—	—	3.3	FA2, FV2(⊙M013)
	HSC04012	7.0	M4×0.7	16.0	4.0	3.0	—	—	6.0	FA3, FV3(⊙M013)
	HSC05012	8.5	M5×0.8	17.0	5.0	4.0	—	—	9.0	SBH(⊙E032, G038, F143)
	HSC05016	8.5	M5×0.8	21.0	5.0	4.0	—	—	9.0	FA4, FV4(⊙M013)
	HSC06020	10.0	M6×1.0	16.0	6.0	5.0	—	—	13.0	PTFN(⊙M007), STFP(⊙M011)
	HSS04004	M4×0.7	—	4.0	—	2.0	—	—	1.6	RBH(⊙E026, G039, F142)
	HSS04006	M4×0.7	—	6.0	—	2.0	—	—	1.6	RBH(⊙E026, G039, F142)
	HSS04008	M4×0.7	—	8.0	—	2.0	—	—	1.6	RBH(⊙E026, G039, F142)
	LLR1	M5×0.8	—	3.5	—	2.5	—	—	—	PTFN, PTGN, PSKN(⊙M007)
	LLR2	M6×1.0	—	5.0	—	3.0	—	—	—	PTFN, PSKN, PCLN(⊙M007)
Inclui itens com o mesmo formato de produtos disponíveis no mercado (norma JIS).										
	HSP05008C	M5×0.8	8.0	—	—	2.5	—	—	2.5	PVJN(⊙C019), DPVP(⊙E050)
	HY-A1	4.4	M3×0.5	7.0	2.1	2.0	82	—	1.5	FA1(⊙M013)
	HY-V1	5.5	M3×0.5	7.0	2.5	2.0	82	—	1.5	FV1(⊙M013)
	HY2	5.5	M3×0.5	10.0	2.5	2.0	82	—	1.5	FA2, FV2(⊙M013)
	HY3	7.0	M3.5×0.6	12.0	2.9	2.0	82	—	1.5	FA3, FV3(⊙M013)
	HY4	9.3	M5×0.8	16.0	3.6	3.0	82	—	3.3	FA4, FV4(⊙M013)
 LLCS103, LLC105 LLCS125, LLC205 Os produtos marcados com "☆" não possuem um furo hexagonal na extremidade a. Os produtos marcados com "*" não possuem um furo hexagonal na extremidade b.	☆ LLCS103	M3×0.5	4.0	11.0	4.6	2.0	—	—	1.5	FAPN, FVPN(⊙M013)
	* LLCS105	M5×0.8	M5×0.8	10.0	1.5	2.0	—	—	1.5	PSBN(⊙C012), A○○○-PCLN(⊙E044)
	LLCS106	M6×1.0	6.0	16.5	3.5	2.5	—	—	2.2	PCLN(⊙C008), A○○○-PTFN(⊙E043)
	* LLCS106S	M6×1.0	6.0	13.4	0.7	2.5	—	—	2.2	PSKN, PCLN, PSYN(⊙M007)
	LLCS108	M8×1.25	8.0	21.0	6.5	3.0	—	—	3.3	PCLN(⊙C008), DPTF(⊙E048)
	* LLCS108S	M8×1.25	8.0	16.5	2.0	3.0	—	—	3.3	A○○○-PSKN(⊙E043), PTFN(⊙M007)
	LLCS125	M5×0.8	M5×0.8	12.0	2.0	2.0	—	—	1.5	A○○○-PDUN(⊙E044)
	LLCS205	M5×0.8	M5×0.8	16.0	4.0	2.0	—	—	1.5	PRGC, PRDC(⊙C025)
	LLCS206	M6×1.0	6.0	26.0	13.0	2.5	—	—	2.2	PTGN(⊙C016), PTFN(⊙C017)
	LLCS306	M6×1.0	6.0	21.0	4.0	2.5	—	—	2.2	PRGC, PRDC(⊙C025)
	LLCS310	M10×1.0	10.0	29.0	8.0	4.0	—	—	7.0	PCLN(⊙C008), PSBN(⊙C012), PSSN(⊙C013)
	LLCS508	M8×1.0	8.0	24.0	6.5	3.0	—	—	3.3	PCLN(⊙C008), PSBN(⊙C012), PSSN(⊙C013)

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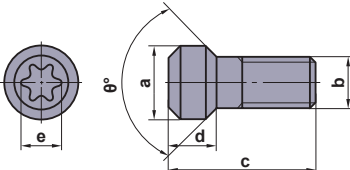
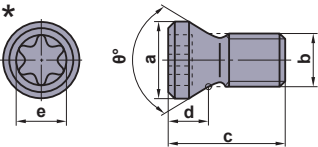
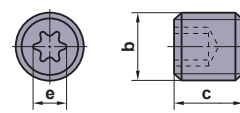
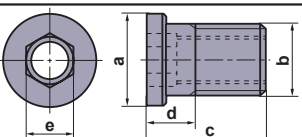
PARAFUSO DE FIXAÇÃO

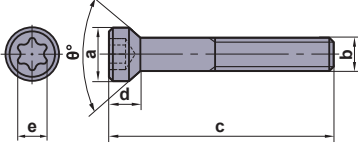
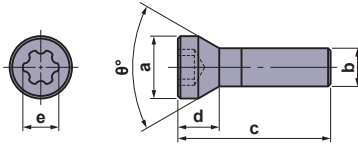
Formato	Referência para Pedido	Dimensões (mm)					Ângulo θ°	Tamanho da Chave	Torque (N·m)	Suporte
		a	b	c	d	e				
	LS3	M8×1.0	32.0	13.0	13.0	4.0	—	—	8.2	FF3000 ()L098)
	* LS10	M7×0.75	16.0	6.0	6.0	4.0	—	—	8.2	FE404 ()L339)
	* LS14	M7×0.75	24.0	10.0	10.0	4.0	—	—	7.8	FP490 ()L335), FP590 ()L337)
	LS25	M8×1.0	28.5	12.0	10.5	4.0	—	—	7.8	MCLN ()C009), MSBN ()C012), MSSN ()C014)
★Sem Furo Hexagonal no Parafuso Direito										
	LS10T	M7×0.75	14.0	6.0	5.0	4.5	—	T25	8.0	NF10000 ()L097)
	LS15T	M7×0.75	18.0	7.0	7.0	4.5	—	T25	8.0	AOX445 ()L088)
	LS0622T	M6×0.75	22.0	8.0	8.0	3.4	—	T15	6.0	AHX640W ()L081), WSF406W ()L084)
	NS251	3.6	M2.5×0.45	7.0	—	2.2	60	—	0.7	BT VH ()D016), CSVH ()D027)
	NS401	5.8	M4×0.7	6.0	—	3.6	60	—	3.5	CTAH-S ()D020)
	NS402W	5.85	M4×0.7	10.0	—	2.2	60	—	0.7	BT AH ()D014), CT AH ()D020), CT BH ()D022)
	NS403W	5.85	M4×0.7	12.0	—	2.2	60	—	0.7	BT AH ()D014), CT AH ()D020), CT BH ()D022)
	NS404W	5.80	M4×0.7	10.0	—	2.2	90	—	0.7	GT AH , GT BH , GT CH ()D018)
	RS3008T	4.3	M3×0.35	8.6	2.0	2.4	61	T8	1.5	SRF ()L300), SUF ()L304)
	RS3510T	5.0	M3.5×0.35	10.0	2.3	2.8	61	T10	2.5	SRF ()L300), SUF ()L304)
	RS4015T	6.0	M4×0.5	14.0	2.7	3.4	61	T15	3.3	SRF ()L300), SUF ()L304)
	RS5020T	8.1	M5×0.5	16.4	3.6	3.9	61	T20	5.0	SRF ()L300), SUF ()L304)
	RS6025T	9.5	M6×0.75	21.5	4.2	4.5	61	T25	7.5	SRF ()L300), SUF ()L304)
	RS8030T	12.0	M8×0.75	25.0	5.0	5.6	61	T30	10.0	SRF ()L300), SUF ()L304)
	S1	3.5	M2×0.4	5.5	2.2	1.5	92	—	0.6	FA0 , FV0 ()M013)
	SD32	12.0	M8×1.25	28.0	7.2	6.0	50	—	9.5	DPVP ()E050)
	SD40	12.0	M8×1.25	36.0	7.2	6.0	50	—	9.5	DPVP ()E050)
	SETS51	6.8	M5×0.8	14.8	1.5	3.4	—	T15	3.5	MMTE ()G023), MMTI ()G032)
	SETS61	8.0	M6×1.0	20.0	1.8	3.9	—	T20	5.0	MMTE ()G023), MMTI ()G032)
	SLCS105	10.0	M5×0.8	25.0	6.3	4.0	90	—	7.0	MTJN ()C017), A ) MWLN ()E047)
	SLCS106	12.0	M6×1.0	32.0	6.2	4.0	90	—	7.0	MTJN ()C017), MTEN , MTQN ()C018)

Formato	Referência para Pedido	Dimensões (mm)					Ângulo	Tamanho	Torque	Suporte
		a	b	c	d	e	θ°	da Chave	(N·m)	
	TPS20	2.70	M2×0.4	3.5	1.3	1.80	60	6IP	0.5	ARX (⌀L270)
	TPS20-1	2.65	M2×0.4	4.7	2.4	1.80	60	6IP	0.6	MVX (⌀N160)
	TPS22	3.00	M2.2×0.45	4.7	1.6	2.10	60	7IP	0.5	ARX (⌀L270)
	TPS22S	3.00	M2.2×0.45	4.2	1.6	2.10	60	7IP	0.5	ARX (⌀L270)
	TPS25	3.30	M2.5×0.45	5.5	1.7	2.10	60	7IP	1.0	APX3000 (⌀L137), APX3K (⌀L142), MVX (⌀N160)
	TPS25-1	3.30	M2.5×0.45	6.5	1.7	2.10	60	7IP	1.0	APX3000 (⌀L137), APX3K (⌀L142)
	TPS27F1	3.70	M2.7×0.35	6.5	1.8	2.10	60	7IP	1.0	VPX200 (⌀L157, L159)
	TPS27F2	3.70	M2.7×0.35	8.0	1.8	2.10	60	7IP	1.0	VPX200 (⌀L157, L159)
	TPS3	3.90	M3×0.5	6.7	2.0	2.82	60	10IP	2.0	MVX (⌀N161)
	TPS3R	4.60	M3×0.5	8.5	1.9	2.82	60	10IP	2.0	WJX09 (⌀L243)
	TPS3SB	4.40	M3×0.5	8.0	2.0	2.70	80	10IP	3.0	AXD4000A (⌀L203)
	TPS35	5.30	M3.5×0.6	11.5	2.8	3.40	60	15IP	3.5	ASX445 (⌀L056), ASX400 (⌀L116), PMR (⌀L330)
	TPS351	4.80	M3.5×0.6	7.2	2.4	2.82	60	10IP	2.5	MVX (⌀N161)
	TPS351B	5.10	M3.5×0.6	7.2	2.3	2.82	60	10IP	2.5	ARP (⌀L265)
	TPS4	5.30	M4×0.7	8.0	2.6	3.40	60	15IP	3.5	APX4000 (⌀L146), ARP (⌀L265), MVX (⌀N162)
	TPS40F1	5.30	M4×0.5	10.5	2.8	3.40	60	15IP	3.0	VPX300 (⌀L163)
	TPS43	5.30	M4×0.7	10.0	2.6	3.40	60	15IP	4.0	APX4000 (⌀L146), APX4K (⌀L152), MVX (⌀N163)
	TPS4R	6.40	M4×0.7	10.6	2.9	3.40	60	15IP	3.5	WSX445 (⌀L040)
	TPS54	6.80	M5×0.8	12.0	3.2	4.50	60	25IP	7.5	MVX (⌀N164)

ACESSÓRIOS

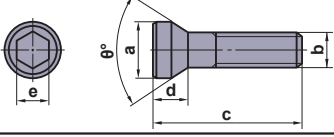
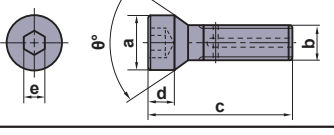
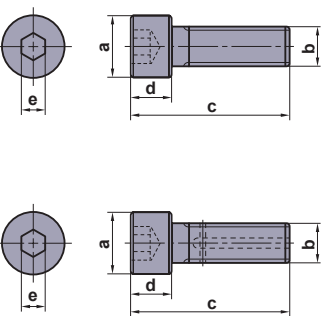
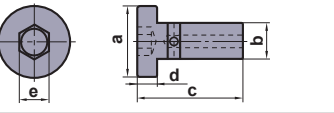
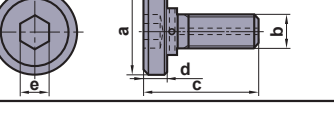
PARAFUSO DE FIXAÇÃO

Formato	Referência para Pedido	Dimensões (mm)					Ângulo θ°	Tamanho da Chave	Torque (N·m)	Suporte
		a	b	c	d	e				
	* TS16	2.5	M1.6×0.35	3.2	1.6	1.8	60	T6	0.6	C ⁰⁰⁰⁰ SCLC(⊙E024)
	TS2	2.7	M2×0.4	4.6	1.4	1.8	60	T6	0.6	FSWU(⊙E016), C ⁰⁰⁰⁰ SWUB(⊙E024)
	TS202	2.7	M2×0.4	5.5	1.8	1.8	60	T6	0.6	SVLP(⊙D012), FSVU(⊙E018), FSVJ(⊙E020)
	* TS2A	2.7	M2×0.4	4.5	1.2	1.8	60	T6	0.6	AQX(⊙L220)
	TS2C	2.7	M2×0.4	3.8	1.4	1.8	60	T6	0.6	C ⁰⁰⁰⁰ SWUB(⊙E024), C ⁰⁰⁰⁰ STUC(⊙E025)
	☆ TS2D	3.8	M2×0.4	5.3	1.9	1.8	82	T6	0.6	FSTUP(⊙E010)
	TS21	2.7	M2×0.4	3.4	1.4	1.8	60	T6	0.6	C ⁰⁰⁰⁰ SCLC(⊙E024), FSWL(⊙E035)
	* TS22	3.0	M2.2×0.45	5.0	1.2	1.8	60	T6	0.6	S/C ⁰⁰⁰⁰ STFC(⊙E036)
	* TS25	3.3	M2.5×0.45	5.5	1.7	2.4	60	T8	1.0	SCLC(⊙C023), FSDUC(⊙E012), FSL(⊙F144)
	☆ TS25D	4.4	M2.5×0.45	6.2	2.2	2.4	82	T8	1.0	FSTUP(⊙E010)
	* TS25H	3.6	M2.5×0.45	5.5	2.0	2.4	60	T8	1.0	SRM2(⊙L308)
	TS253	3.3	M2.5×0.45	4.5	1.7	2.4	60	T8	1.0	FSCL(⊙E008), FSWU(⊙E016)
	TS254	3.3	M2.5×0.45	7.0	1.7	2.4	60	T8	1.0	SCAC(⊙D010), SDJC(⊙D011), SH(⊙D026)
	* TS255	3.5	M2.5×0.45	7.5	1.6	2.4	60	T8	1.0	SXZC(⊙C031), SVLP, SVJB(⊙D012)
	TS3	3.9	M3×0.5	6.0	2.0	2.4	60	T8	1.0	SRGC(⊙C026), STGC(⊙C028), TSMP(⊙L320)
	TS304	3.9	M3×0.5	10.5	2.0	2.4	60	T8	1.5	VAS300(⊙L132)
	TS3D	5.0	M3×0.5	6.0	2.3	2.8	82	T10	2.5	FSCLC, FSCLP(⊙E008)
	* TS3SB	4.4	M3×0.5	8.0	2.0	2.4	80	T8	1.5	AXD4000(⊙L194)
	TS3SBS	4.4	M3×0.5	6.5	2.0	2.4	80	T8	1.5	AXD4000(⊙L194)
	☆ TS31D	4.8	M3×0.5	7.2	2.2	2.8	82	T10	2.5	FSTUP(⊙E010)
	* TS32	3.9	M3×0.5	7.5	2.0	2.4	60	T8	2.0	SVJC(⊙D013), FSL(⊙F144), SRM2(⊙L308)
	* TS33	3.9	M3×0.5	6.7	2.0	2.4	60	T8	1.5	AQX(⊙L220), AJX(⊙L230), PMC(⊙L326)
	* TS35D	5.3	M3.5×0.6	12.0	2.8	3.4	60	T15	3.5	FSVU(⊙E018), H63TH-SVPB(⊙H013)
	TS35R	5.7	M3.5×0.6	10.0	2.1	3.4	—	T15	3.5	AHX440S(⊙L062), AHX475S(⊙L068)
	TS351	4.8	M3.5×0.6	7.2	2.4	2.8	60	T10	2.5	AJX(⊙L230), PMC(⊙L326)
	TS352	4.8	M3.5×0.6	10.0	3.0	2.8	60	T10	2.5	VFX5(⊙L293)
	TS4	5.4	M4×0.7	8.0	2.6	3.4	60	T15	3.5	FSWU(⊙E016), FSWL(⊙E035)
	TS406	5.4	M4×0.7	15.5	2.6	3.4	60	T15	3.5	VAS400(⊙L132)
	TS407	5.4	M4×0.7	9.0	2.6	3.4	60	T15	3.5	GYH(⊙F023), GYDRL(⊙F087), AQX(⊙L220)
	TS4D	5.6	M4×0.7	7.7	2.5	3.4	82	T15	3.5	FSCL(⊙E008), FSTUP(⊙E010)
	TS43	5.4	M4×0.7	10.0	2.6	3.4	60	T15	3.5	SCLC(⊙C023), AJX(⊙L230), BRP(⊙L275)
	TS44	5.4	M4×0.7	12.0	2.6	3.4	60	T15	3.5	SVJC(⊙C029), SVPC(⊙C030)
	TS450	5.9	M4.5×0.75	13.0	3.6	3.9	60	T20	5.0	VFX6(⊙L297)
	* TS4SB	5.8	M4×0.7	9.0	2.7	3.4	80	T15	3.5	AXD7000(⊙L208)
	* TS4SBL	5.8	M4×0.7	10.5	2.7	3.4	80	T15	3.5	GYS(⊙F017), AXD7000(⊙L208)
	* TS4SL	5.4	M4×0.7	8.0	2.4	3.4	80	T15	4.0	BXD4000(⊙L216)
	TS5	6.8	M5×0.8	9.0	3.2	4.5	60	T25	7.5	SCLC(⊙C023), S/C ⁰⁰⁰⁰ SDUC(⊙E037)
	TS5R	6.9	M5×0.8	12.0	3.5	3.9	60	T20	5.0	WWX400(⊙L101), WJX(⊙L251)
	TS52	6.8	M5×0.8	8.0	3.2	4.5	60	T25	7.5	CESP(⊙L318)
	TS53	6.8	M5×0.8	16.0	3.2	4.5	60	T25	7.5	VAS500(⊙L132)
	TS54	6.8	M5×0.8	12.0	3.2	4.5	60	T25	7.5	AJX(⊙L230), BRP(⊙L275)
	TS55	6.8	M5×0.8	10.5	3.2	4.5	60	T25	7.5	GYH(⊙F023), GYD(⊙F087), AQX(⊙L220)
	* TS6S	8.5	M6×1.0	13.0	4.4	5.6	60	T30	10.0	AQX(⊙L220), SRM2(⊙L316)
	* TS6	8.5	M6×1.0	16.0	4.4	5.6	60	T30	10.0	SRM2(⊙L316)
	TSS04005	—	M4×0.7	5.0	—	2.4	—	T8	—	PMF(⊙L328)
	TSS04505S	—	M4.5×0.7	5.0	—	3.5	—	T10	3.5	FMAX(⊙L089)
	TSS05006	—	M5×0.8	6.0	—	2.8	—	T10	—	CSKP(⊙M009), STFP(⊙M011)
	TSS06010	—	M6×1.0	10.0	—	3.9	—	T20	—	CSKP(⊙M009), STFP(⊙M011)
	TSS06012	—	M6×1.0	12.0	—	3.9	—	T20	—	STGP, STTP(⊙M011)
	WCS503507H	6.3	M5×0.5	7.0	3.3	3.5	—	—	5.0	ASX445(⊙L056), ASX400(⊙L116), PMR(⊙L330)

Formato	Referência para Pedido	Dimensões (mm)					Ângulo	Tamanho da Chave	Torque	Suporte
		a	b	c	d	e	θ°		(N.m)	
	WS304517T	4.5	M3×0.5	16.5	3.4	2.8	60	T10	3.5	TAW (☹N151)
	WS304518T	4.5	M3×0.5	17.5	3.4	2.8	60	T10	3.5	TAW (☹N151)
	WS355520T	5.5	M3.5×0.6	19.5	3.9	3.4	60	T15	5.5	TAW (☹N152)
	WS355521T	5.5	M3.5×0.6	20.5	3.9	3.4	60	T15	5.5	TAW (☹N152)
	WS406023T	6.0	M4×0.7	22.0	4.4	4.5	60	T25	8.5	TAW (☹N153, N159)
	WS406024T	6.0	M4×0.7	23.0	4.4	4.5	60	T25	8.5	TAW (☹N153, N159)
	WS508026T	8.0	M5×0.8	25.0	5.2	5.1	60	T27	12.0	TAW (☹N154)
	WS508027T	8.0	M5×0.8	26.0	5.2	5.1	60	T27	12.0	TAW (☹N154)
	WS203107TPS	3.1	M2×0.25	7.3	1.70	1.80	60	6IP	1.0	STAW (☹N150)
	WS203108TPS	3.1	M2×0.25	8.3	1.90	1.80	60	6IP	1.0	STAW (☹N150)
	WS253909TPS	3.9	M2.5×0.35	9.5	2.40	2.40	60	8IP	2.0	STAW (☹N150)
	WS304912TPS	4.9	M3×0.35	12.0	3.25	2.82	60	10IP	2.5	STAW (☹N150)

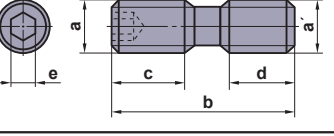
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PARAFUSO DE MONTAGEM

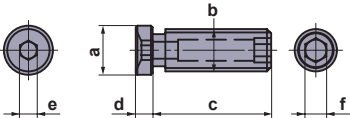
Formato	Referência para Pedido	Dimensões (mm)					Ângulo θ°	Tamanho da Chave	Torque (N·m)	Suporte
		a	b	c	d	e				
	BOES101	15.0	M10×1.5	45.0	10.0	8.0	60	—	10.0	OCTACUT ()L259)
	HFF08033H HFF08043H	11.0 11.0	M8×1.25 M8×1.25	33.0 43.0	5.0 5.0	5.0 5.0	90 90	— —	8.2 8.2	WJX09 ()L242) AXD4000 ()L195), BXD ()L217)
	HSC06016	10.0	M6×1.0	22.0	6.0	5.0	—	—	13.0	PTFN ()M007), STFP ()M011)
	HSC06020	10.0	M6×1.0	31.0	6.0	5.0	—	—	13.0	PTFN ()M007), STFP ()M011)
	* HSC08025H	13.0	M8×1.25	24.0	8.0	6.0	—	—	24.0	WSX445 ()L041), AHX440 ()L063), VPX200 ()L158)
	* HSC08030H	13.0	M8×1.25	38.0	8.0	5.0	—	—	24.0	FMAX ()L090), APX3000 ()L137), APX4000 ()L147)
	HSC08040	13.0	M8×1.25	48.0	8.0	6.0	—	—	24.0	APX3K ()L143), VPX300 ()L166), VFX5 ()L293)
	HSC08045	13.0	M8×1.25	53.0	8.0	6.0	—	—	24.0	VPX200 ()L160)
	HSC08050	13.0	M8×1.25	58.0	8.0	6.0	—	—	24.0	VPX200 ()L160), VPX300 ()L166), VFX5 ()L293)
	* HSC10030H	16.0	M10×1.5	40.0	10.0	6.0	—	—	40.0	WSX445 ()L041), AHX440 ()L063), AHX475 ()L068)
	HSC10035	16.0	M10×1.5	45.0	10.0	8.0	—	—	44.0	WWX400 ()L102), VFX5 ()L293), PMR ()L330)
	HSC10040	16.0	M10×1.5	50.0	10.0	8.0	—	—	44.0	VPX300 ()L166)
	HSC10045	16.0	M10×1.5	55.0	10.0	8.0	—	—	44.0	APX3K ()L143), VPX200 ()L160), VFX5 ()L293)
	HSC10050	16.0	M10×1.5	60.0	10.0	8.0	—	—	44.0	APX4K ()L153), VPX300 ()L166)
	HSC10055	16.0	M10×1.5	65.0	10.0	8.0	—	—	44.0	VFX5 ()L293)
	HSC10060	16.0	M10×1.5	70.0	10.0	8.0	—	—	44.0	VPX300 ()L166)
	HSC10070	16.0	M10×1.5	80.0	10.0	8.0	—	—	44.0	ASPX ()L288)
	HSC12035	18.0	M12×1.75	47.0	12.0	10.0	—	—	80.0	WSX445 ()L041), AHX440 ()L063), AHX475 ()L068)
	* HSC12035H	18.0	M12×1.75	47.0	12.0	10.0	—	—	80.0	WSX445 ()L041), AHX440 ()L063), AHX475 ()L068)
	HSC12045	18.0	M12×1.75	57.0	12.0	10.0	—	—	80.0	VFX5 ()L293), VFX6 ()L297)
	HSC12050	18.0	M12×1.75	62.0	12.0	10.0	—	—	80.0	VPX300 ()L166)
	HSC12060	18.0	M12×1.75	72.0	12.0	10.0	—	—	80.0	VPX300 ()L166)
	HSC12070	18.0	M12×1.75	82.0	12.0	10.0	—	—	80.0	APX4K ()L153), VPX300 ()L166), SPX4 ()L284)
	HSC16035	24.0	M16×2.0	51.0	16.0	14.0	—	—	150.0	OCTACUT ()L259)
	HSC16040	24.0	M16×2.0	56.0	16.0	14.0	—	—	150.0	VFX6 ()L297), PMR ()L330)
	* HSC16040H	24.0	M16×2.0	56.0	16.0	14.0	—	—	150.0	AHX475 ()L068), APX3000 ()L137), APX4000 ()L147)
	HSC16055	24.0	M16×2.0	71.0	16.0	14.0	—	—	150.0	VPX300 ()L166)
	HSC16065	24.0	M16×2.0	81.0	16.0	14.0	—	—	150.0	VPX300 ()L166), SPX4 ()L284)
	HSC16080	24.0	M16×2.0	96.0	16.0	14.0	—	—	150.0	ASPX ()L288), VFX5 ()L293), VFX6 ()L297)
	HSC20040	30.0	M20×2.5	60.0	20.0	17.0	—	—	320.0	VFX6 ()L297)
	HSC20090	30.0	M20×2.5	110.0	20.0	17.0	—	—	320.0	VFX6 ()L297)
	HSCX12030H	24.0	M12×1.75	37.0	7.0	8.0	—	—	40.0	FMAX ()L089)
	HSCX16035H	30.0	M16×2.0	44.0	9.0	12.0	—	—	100.0	FMAX ()L091)
	HSCX16045H	30.0	M16×2.0	54.0	9.0	12.0	—	—	100.0	FMAX ()L091)
	HSCX20035H	36.0	M20×2.5	46.0	11.0	14.0	—	—	180.0	FMAX ()L091)
	MBA16033H	40.0	M16×2.0	43.0	10.0	14.0	—	—	150.0	WSX445 ()L041), AHX440 ()L063), AHX640 ()L071)
	MBA20040H	50.0	M20×2.5	54.0	14.0	17.0	—	—	320.0	WSX445 ()L041), AHX440 ()L063), AHX475 ()L068)
	MBA24045H	65.0	M24×3.0	59.0	14.0	17.0	—	—	520.0	WSX445 ()L041), AHX440 ()L063), AHX475 ()L068)

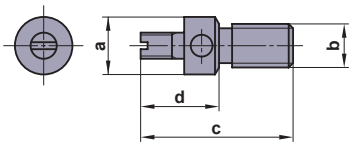
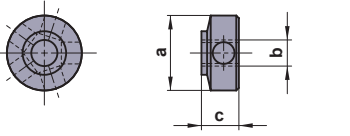
* Com furo de refrigeração.

Inclui itens com o mesmo formato de produtos disponíveis no mercado (norma JIS).

Formato	Referência para Pedido	Dimensões (mm)						Torque (N·m)	Suporte
		a	a'	b	c	d	e		
	HDS08030 HDS10031	M8×0.75 M10×1.0	M8×1.25 M10×1.5	30.0 31.0	13.5 14.0	11.5 12.0	4.0 5.0	8.2 9.0	OCTACUT ()L259), BRP ()L276) OCTACUT ()L259), PMF ()L328)

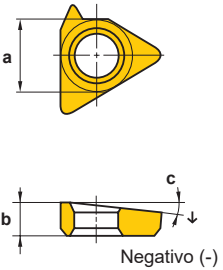
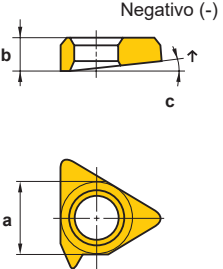
PARAFUSOS E PORCAS DE AJUSTE

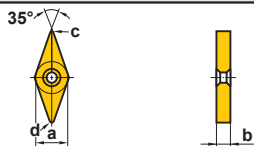
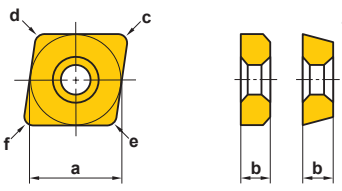
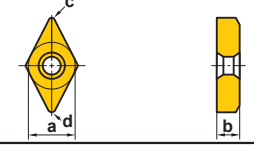
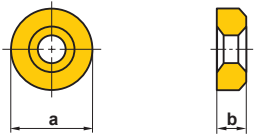
Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	HVS060519	5.8	M5×0.8	14.0	2.0	2.0	2.5	HVF ( M002)

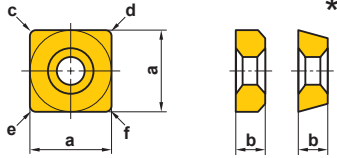
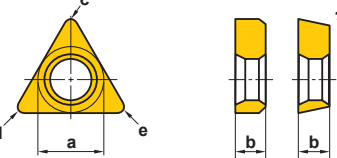
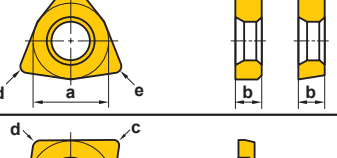
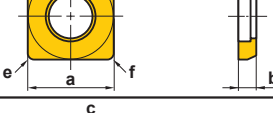
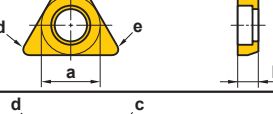
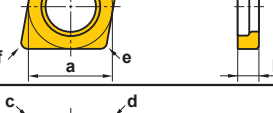
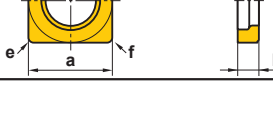
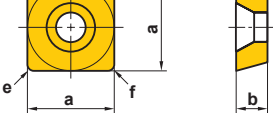
Formato	Referência para Pedido	Dimensões (mm)				Suporte
		a	b	c	d	
	KSS2	6.6	M5×0.8	17.5	9.0	FMAX ( L089)
	KSN3	8.6	M3×0.35	4.3	—	FMAX ( L089)

ACESSÓRIOS

CALÇO

Formato	Referência para Pedido	Dimensões (mm)			Suporte
		a	b	c	
	CTE32TN15	9.525	3.18	-3°	MMTE(☉G023)
	CTE32TN05	9.525	3.18	-2°	MMTE(☉G023)
	CTE32TP05	9.525	3.18	-1°	MMTE(☉G023)
	CTE32TP15	9.525	3.18	0°	MMTE(☉G023)
	CTE32TP25	9.525	3.18	1°	MMTE(☉G023)
	CTE32TP35	9.525	3.18	2°	MMTE(☉G023)
	CTE32TP45	9.525	3.18	3°	MMTE(☉G023)
	CTE43TN15	12.70	4.76	-3°	MMTE(☉G023)
	CTE43TN05	12.70	4.76	-2°	MMTE(☉G023)
	CTE43TP05	12.70	4.76	-1°	MMTE(☉G023)
	CTE43TP15	12.70	4.76	0°	MMTE(☉G023)
	CTE43TP25	12.70	4.76	1°	MMTE(☉G023)
	CTE43TP35	12.70	4.76	2°	MMTE(☉G023)
	CTE43TP45	12.70	4.76	3°	MMTE(☉G023)
	CTI32TN15	9.525	3.18	-3°	MMTI(☉G032)
	CTI32TN05	9.525	3.18	-2°	MMTI(☉G032)
	CTI32TP05	9.525	3.18	-1°	MMTI(☉G032)
	CTI32TP15	9.525	3.18	0°	MMTI(☉G032)
	CTI32TP25	9.525	3.18	1°	MMTI(☉G032)
	CTI32TP35	9.525	3.18	2°	MMTI(☉G032)
	CTI32TP45	9.525	3.18	3°	MMTI(☉G032)
	CTI43TN15	12.70	4.76	-3°	MMTI(☉G032)
	CTI43TN05	12.70	4.76	-2°	MMTI(☉G032)
	CTI43TP05	12.70	4.76	-1°	MMTI(☉G032)
	CTI43TP15	12.70	4.76	0°	MMTI(☉G032)
	CTI43TP25	12.70	4.76	1°	MMTI(☉G032)
	CTI43TP35	12.70	4.76	2°	MMTI(☉G032)
	CTI43TP45	12.70	4.76	3°	MMTI(☉G032)

Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	DCSVN32	9.52	3.18	0.8	1.2	—	—	DVJN(☉C019), DVVN(☉C020), DVPN(☉C021)
	LLSCN3T3	9.52	3.97	0.4	0.4	0.8	0.8	PCLN, DCLN(☉C008)
	LLSCN33	9.52	4.76	0.4	0.4	0.8	0.8	DCLN(☉C008)
	LLSCN42	12.70	3.18	0.8	0.8	1.2	1.2	PCLN, DCLN(☉C008), A○○○-DCLN(☉E021)
	LLSCN53	15.87	4.76	1.2	1.2	1.6	1.6	PCLN(☉C008)
	LLSCN63	19.05	4.76	1.2	1.2	1.6	1.6	PCLN(☉C008)
	* LLSCP42	12.70	3.18	0.8	0.8	1.2	1.2	A○○○-DCLN(☉E021), A○○○-PCLN(☉E044)
	LLSDN32	9.52	3.18	0.8	1.2	—	—	DDJN(☉C010), A○○○-PDUN(☉E044)
	LLSDN42	12.70	3.18	0.8	1.2	—	—	PDJN, DDJN(☉C010), A○○○-DDUN(☉E021)
	LLSDN43	12.70	4.76	0.8	1.2	—	—	PDJN, DDJN(☉C010), PDHN(☉C011)
	* LLSDP42	12.70	3.18	0.8	1.2	—	—	A○○○-DDUN(☉E021)
	LLSRN103	8.3	3.18	—	—	—	—	PRGC, PRDC(☉C025)
	LLSRN123	9.8	3.18	—	—	—	—	PRGC, PRDC(☉C025)
	LLSRN164	13.6	4.76	—	—	—	—	PRGC, PRDC(☉C025)
	LLSRN204	17.3	4.76	—	—	—	—	PRGC, PRDC(☉C025)

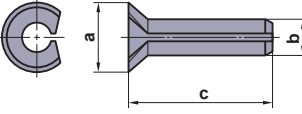
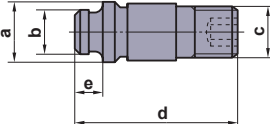
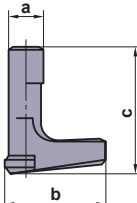
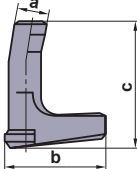
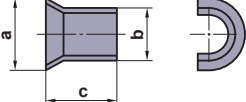
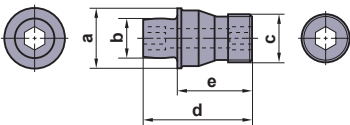
Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	LLSSN33	9.52	4.76	0.8	0.8	1.2	1.2	PSBN (C012), PSDN (C014)
	LLSSN42	12.70	3.18	0.8	0.8	1.2	1.6	PSBN (C012), A (DSKN)(E022)
	LLSSN53	15.87	4.76	1.2	1.2	1.6	1.6	PSBN (C012), PSSN (C013)
	LLSSN63	19.05	4.76	1.2	1.2	1.6	2.0	PSBN (C012), PSSN (C013)
	* LLSSP42	12.70	3.18	0.8	0.8	1.2	1.6	A (DSKN)(E022)
	LLSTN32	9.52	3.18	0.4	0.8	1.2	—	PTGN , DTGN (C016), A (DTFN)(E022)
	LLSTN33	9.52	4.76	0.4	0.8	1.2	—	PTGN , DTGN (C016), PTFN (C017)
	LLSTN42	12.70	3.18	0.4	0.8	1.2	—	PTGN (C016), A (PTFN)(E043)
	LLSTN53	15.87	4.76	0.8	1.2	1.6	—	PTGN (C016)
	* LLSTP32	9.52	3.18	0.4	0.8	1.2	—	A (DTFN)(E022)
	LLSWN32	9.52	3.18	0.4	0.8	1.2	—	PWLN , DWLN (C022)
	LLSWN3T3	9.52	3.97	0.4	0.8	1.2	—	PWLN , DWLN (C022)
	LLSWN42	12.70	3.18	0.4	0.8	1.2	—	DWLN (C022), A (DWLN)(E023)
	* LLSWP32	9.52	3.18	0.4	0.8	1.2	—	A (DWLN)(E023)
	* LLSWP42	12.70	3.18	0.4	0.8	1.2	—	A (DWLN)(E023)
	MLCP42	12.58	3.18	1.2	1.2	1.2	1.2	A (PCLN)(E044)
	MLDP42	12.56	3.18	1.2	1.2	—	—	A (PDUN)(E044), A (PDQN)(E045)
	MLSP42	12.63	3.18	1.2	1.2	1.2	1.2	A (PSKN)(E043)
	MLTP32	9.50	3.18	1.2	1.2	1.2	—	A (PTFN)(E043)
	MSCN63	18.8	4.76	1.6	1.6	1.6	1.6	MCLN (C009)
	MSSN63	18.8	4.76	1.6	1.6	1.6	1.6	MSBN (C012), MSSN (C014)
	PS42	11.46	3.18	0.2	0.2	0.6	1.0	CSKP (M009)

ACESSÓRIOS

CALÇO

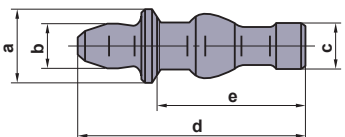
Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	PT32	8.28	3.18	0.2	0.2	0.6	—	FCTU (☉E034)
	PV321	9.52	3.18	0.4	0.4	—	—	PVJN (☉C019), PVVN (☉C020), PVPN (☉C021)
	PV322	9.52	3.18	0.8	0.8	—	—	PVJN (☉C019), PVVN (☉C020), PVPN (☉C021)
	PV323	9.52	3.18	1.2	1.2	—	—	PVJN (☉C019), PVVN (☉C020), PVPN (☉C021)
	SPSVN32	8.06	3.18	0.3	0.3	—	—	SVJC (☉C029), SVPC (☉C030), FSVU (☉E018)
	STASX400N	11.00	3.00	0.4	0.4	0.4	0.4	ASX400 (☉L116)
	STASX445N	10.76	3.00	—	—	—	—	ASX445 (☉L056)
	STPMR4N	10.46	3.00	1.2	1.2	1.2	1.2	PMR (☉L330)
	WPSTN33	9.30	4.76	0.8	0.4	1.2	—	MTJN (☉C017), MTEN , MTQN (☉C018)
	WPSTN43	12.50	4.76	0.8	0.4	1.2	—	MTJN (☉C017), MTEN , MTQN (☉C018)

PINO DO CALÇO E ALAVANCA

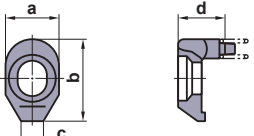
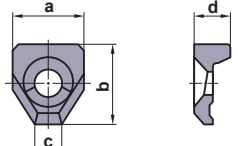
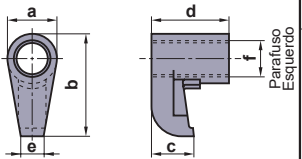
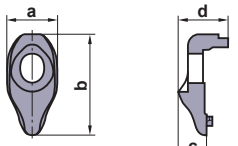
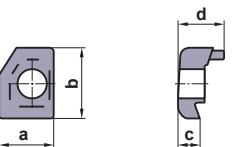
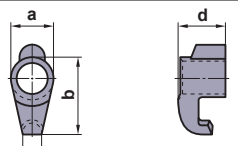
Formato	Referência para Pedido	Dimensões (mm)					Suporte
		a	b	c	d	e	
	BCP141	3.0	1.4	5.6	—	—	SVJC(☉C029), SVPC(☉C030), FSVU(☉E018)
	BCP201	4.3	2.0	7.4	—	—	FCTU1(☉E034)
	BCP202	4.3	2.0	6.4	—	—	FCTU1, FCTU2(☉E034)
	BCP251	4.8	2.5	7.4	—	—	CSKP(☉M009)
	CCP33	6.5	3.66	M5×0.8	18.5	3.0	MTJN(☉C017), MTEN, MTQN(☉C018)
	CCP34	7.5	5.00	M6×1.0	18.5	3.0	MTJN(☉C017), MTEN, MTQN(☉C018)
	CCP44	7.5	5.00	M5×0.8	14.2	3.0	A○○○MWLN(☉E047)
	LLCL12S	2.1	9.3	5.6	—	—	PTGN(☉C016), PTFN(☉M007), FA/V(☉M013)
	LLCL13	3.6	10.0	12.5	—	—	PCLN(☉C008), A○○○PTFN(☉E043)
	LLCL13S	3.6	10.0	7.8	—	—	PSBN(☉C012), A○○○PCLN(☉E044)
	LLCL14	4.7	13.4	13.2	—	—	PCLN(☉C008), A○○○PSKN(☉E043)
	LLCL14S	4.7	13.6	12.2	—	—	PSKN, PSSN, PSYN, PCLN(☉M007)
	LLCL23	3.6	12.0	11.5	—	—	A○○○PDUN(☉E044)
	LLCL23S	3.6	11.6	9.5	—	—	A○○○PDUN(☉E044)
	LLCL24	4.7	16.2	14.8	—	—	PDJN(☉C010), A○○○PDUN(☉E044)
	LLCL25	6.0	17.1	17.0	—	—	PCLN(☉C008), PSBN(☉C012), PSSN(☉C013)
	LLCL110	3.0	10.7	11.6	—	—	PRGC, PRDC(☉C025)
	LLCL112	3.5	13.0	13.5	—	—	PRGC, PRDC(☉C025), H63TH-PRGC(☉H012)
	LLCL116	4.5	18.5	18.0	—	—	PRGC, PRDC(☉C025)
	LLCL120	5.6	20.3	19.0	—	—	PRGC, PRDC(☉C025)
	LLP13	5.55	4.85	5.3	—	—	PCLN(☉C008), A○○○DVUN(☉E023)
	LLP14	7.25	6.55	5.8	—	—	PCLN(☉C008), A○○○DWLN(☉E023)
	LLP15	8.80	8.05	8.6	—	—	PCLN(☉C008), PSBN(☉C012), PSSN(☉C013)
	LLP16	10.85	9.85	11.1	—	—	PCLN(☉C008), PSBN(☉C012), PSSN(☉C013)
	LLP23	5.55	4.85	6.8	—	—	DCLN(☉C008), DDJN(☉C010), PSBN(☉C012)
	LLP24	7.25	6.55	9.1	—	—	DDJN(☉C010), H63TH-DDJN(☉H009)
	MP6	11.9	7.8	M10×1.0	22.1	15.0	MCLN(☉C009), MSBN(☉C012), MSSN(☉C014)

ACESSÓRIOS

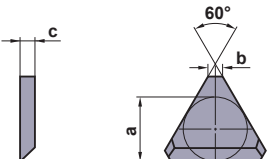
PINO DE FIXAÇÃO

Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	P11S	6.0	3.7	4.0	17.0	11.1	—	PVJN(☉C019), PVVN(☉C020), DPVP(☉E050)
	P21S	7.5	4.9	4.5	17.2	11.5	—	DPT4(☉F146), DPT2(☉G042)

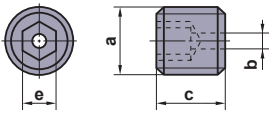
GRAMPO DE FIXAÇÃO

Formato	Referência para Pedido	Dimensões (mm)						Suporte
		a	b	c	d	e	f	
	AMS3	7.0	12.0	3.0	3.3	—	—	SXZC(☉C031), AJX09(☉L230), PMC(☉L326)
	AMS4	9.0	13.5	3.0	3.8	—	—	AJX12(☉L230), PMC(☉L326)
	AMS5	10.0	15.0	3.5	5.0	—	—	AJX14(☉L230)
	CCK13	15.0	18.5	6.0	9.0	—	—	MTJN(☉C017), A○○○MWLN(☉E047)
	CCK14	19.0	22.0	8.0	9.5	—	—	MTJN(☉C017), MTEN, MTQN(☉C018)
	CKW6	10.9	22.5	9.2	16.8	5.0	M8×1.0	MCLN(☉C009), MSBN(☉C012), MSSN(☉C014)
	DCK2211	11.0	22.0	6.57	11.1	—	—	DCLN(☉C008), A○○○-DTFN(☉E022)
	DCK2613	13.0	26.5	7.35	12.9	—	—	DCLN(☉C008), A○○○-DCLN(☉E021)
	DCK3113	13.0	31.0	9.0	14.5	—	—	DVJN(☉C019), A○○○-DVUN(☉E023)
	MTK1R/L	13.0	17.5	5.0	12.0	—	—	MGH(☉F136), MTH, MT1(☉G028)
	SETK51	6.8	14.5	2.9	8.0	—	—	MMTE(☉G023), MMTI(☉G032)
	SETK61	8.9	18.1	4.1	8.6	—	—	MMTE(☉G023), MMTI(☉G032)

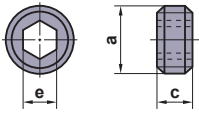
QUEBRA-CAVACO MECÂNICO

Formato	Referência para Pedido	Dimensões (mm)					Suporte
		a	b	c	Círculo Inscrito	Largura do Quebra-cavaco	
	CBT2N	5.67	1.4	1.5	6.350	1.0	FCTU1, FCTU2(☉E034)
	CBT3F	8.53	1.4	2.5	9.525	1.5	FCTU1, FCTU2(☉E034)
							Para insertos positivos, a largura do quebra-cavaco é 0.5mm maior que os valores na tabela.

BOCAL DE REFRIGERAÇÃO

Formato	Referência para Pedido	Dimensões (mm)				Suporte
		a	b	c	e	
	HSD04004H06	M4x0.7	0.6	4.0	2.0	ARP(☉L265), ASPX(☉L288), VFX5(☉L293)
	HSD04004H08	M4x0.7	0.8	4.0	2.0	ARP(☉L265), ASPX(☉L288), VFX5(☉L293)
	HSD04004H12	M4x0.7	1.2	4.0	2.0	ARP(☉L265), ASPX(☉L288), VFX5(☉L293)
	HSD04004H16	M4x0.7	1.6	4.0	2.0	ARP(☉L265), ASPX(☉L288), VFX5(☉L293)

ANEL BATENTE

Formato	Referência para Pedido	Dimensões (mm)			Suporte
		a	c	e	
	WS35LH	3.47	1.7	2.0	STAW(☉N150)
	WS45LH	3.47	1.7	2.0	STAW(☉N150)
	WS55LH	3.47	1.7	2.0	STAW(☉N150)

LUBRIFICANTE ANTITRAVANTE

Formato	Referência para Pedido	Volume (g)	Suporte
	MK1KS	3	WWX(☉L101), TAW(☉N151)

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

*As "Peças de reposição para ferramentas obsoletas" indicam o nome dos produtos e seus componentes que foram descontinuados (consolidados), devido ao lançamento de novos produtos.

Por favor, note que as "peças de reposição obsoletas" podem estar indisponíveis após um certo período de tempo.

SUPORTES DE TORNEAMENTO

SUPORTE TIPO CTCH, CTDH, CTEH

Referência do Suporte Obsoleto			
Formato	Tamanho	Parafuso de Fixação	Chave
CTCHR/L	1010-200	NS501W	HKY25RS
	1212-200	NS501W	HKY25RS
CTDHR/L	1616-230	HBH06020	HKY40R
	1616-280	NS502W	HKY25R
	1616-350	HBH06020	HKY40R
CTEHR/L	1616-230	HBH06020	HKY40R
	1616-280	NS502W	HKY25R
	1616-350	HBH06020	HKY40R

SUPORTE TIPO EG

Referência do Suporte Obsoleto			
Formato	Tamanho	Parafuso de Fixação	Chave
EGHR	2020K03	EGS06019	HKY30R
	2525M3	EGS06019	HKY30R
	2525M4	EGS08024	HKY40R
	2525M5	EGS08024	HKY40R
	2525M7	EGS08024	HKY40R
	2525M8	EGS08024	HKY40R

SUPORTE TIPO ET

Referência do Suporte Obsoleto							
Formato	Tamanho	Grampo de Fixação	Parafuso de Fixação	Parafuso do Calço	Calço	Quebra-cavaco Mecânico	Chave
ETHR	2525M16	CK341	LS2	CFM02008	PT32T1R PT32T2R	CBT3106 CBT3113 CBT3120	HKY40R
	2525M22	CK341	LS2	SFC02508	PT42TR	CBT4108 CBT4128	HKY40R

SUPORTE TIPO LL

Referência do Suporte Obsoleto						
Formato	Tamanho	Calço	Pino do Calço	Alavanca	Parafuso de Fixação	Chave
PCFNR/L PCLNR/L PCBNR/L	1616H09	LLSCN3T3	LLP13	LLCL13	LLCS106	HKY25R
	2020K09	LLSCN3T3	LLP13	LLCL13	LLCS106	HKY25R
	2525M09	LLSCN3T3	LLP13	LLCL13	LLCS106	HKY25R
	2020K12	LLSCN42	LLP14	LLCL14	LLCS108	HKY30R
	2525M12	LLSCN42	LLP14	LLCL14	LLCS108	HKY30R
	2525M16	LLSCN53	LLP15	LLCL25	LLCS508	HKY30R
	3225P16	LLSCN53	LLP15	LLCL25	LLCS508	HKY30R
	4040R19	LLSCN63	LLP16	LLCL16	LLCS310	HKY40R
PDNNR/L	1XM15	LLSDN43	LLP14	LLCL24	LLCS308	HKY30R
	2XM15	LLSDN43	LLP14	LLCL24	LLCS308	HKY30R
PTANR/L PTBNR/L PTTNR/L PTGNR/L PTFNR/L	1010E11	—	—	LLCL12S	LLCS105	HKY20F
	1212F11	—	—	LLCL12S	LLCS105	HKY20F
	1616H16	LLSTN32	LLP13	LLCL13	LLCS106	HKY25R
	2020K16	LLSTN32	LLP13	LLCL13	LLCS106	HKY25R
	2525M16	LLSTN32	LLP13	LLCL13	LLCS206	HKY25R
	2525M22	LLSTN42	LLP14	LLCL14	LLCS108	HKY30R
	3225P22	LLSTN42	LLP14	LLCL14	LLCS108	HKY30R
	3232P22	LLSTN42	LLP14	LLCL14	LLCS108	HKY30R
	4040R27	LLSTN53	LLP15	LLCL25	LLCS508	HKY30R
PSBNR/L PSSNR/L PSKNR/L	3225P12	LLSSN42	LLP14	LLCL14	LLCS108	HKY30R
	2525M15	LLSSN53	LLP15	LLCL25	LLCS508	HKY30R
	3232P15	LLSSN53	LLP15	LLCL25	LLCS508	HKY30R
	3232P19	LLSSN63	LLP16	LLCL16	LLCS310	HKY40R
	4040R19	LLSSN63	LLP16	LLCL16	LLCS310	HKY40R
	5050T25	LLSSN84	LLP18	LLCL18	LLCS112	HKY50R
PRGCR/L PRDCN	2020K10	LLSRN103	LLP13	LLCL110	LLCS205	HKY20R
	2020K12	LLSRN123	LLP13	LLCL112	LLCS106	HKY25R
	3225P12	LLSRN123	LLP13	LLCL112	LLCS106	HKY25R
	3225P16	LLSRN164	LLP24	LLCL116	LLCS306	HKY25R
	4040R25	LLSRN256	LLP16	LLCL125	LLCS410	HKY40R
	5050T32	LLSRN326	LLP18	LLCL132	LLCS112	HKY50R

SUPORTE TIPO MC

Referência do Suporte Obsoleto								
Formato	Tamanho	Calço	Pino do Calço	Grampo de Fixação	Parafuso de Fixação	Quebra-cavaco Mecânico	Chave	Mola
CTANR/L CTGNR/L	1616	CT22	BCP201	CK231	LS1	CBT2	HKY30R	—
	2020	CT32	BCP301	CK341	LS2	CBT3	HKY40R	—
	2525	CT32	BCP301	CK341	LS3	CBT3	HKY40R	—
CSTNR/L CSSNR/L	1616	CS32	BCP251	CK232	LS1	CBS3	HKY30R	—
	2020	CS42	BCP301	CK341	LS2	CBS4	HKY40R	—
	2525M43	CS42	BCP301	CK341	LS3	CBS4	HKY40R	—
CTAPR/L	2020	PT32	BCP201	CK341	LS2	CBT3	HKY40R	—
CSBPR/L CSSPR/L CSKPR/L	1616	PS31	BCP201	CK232	LS1	CBS3	HKY30R	—
	2020	PS42	BCP251	CK342	LS2	CBS4	HKY40R	—
CTCPR/L	2020K16	BPT322	BCP201	CCTC1	HSC06020	CBT3	HKY50R	MES3
	2525M16	BPT322	BCP201	CCTC1	HSC06020	CBT3	HKY50R	MES3
CTGPR/L CTFPR/L	1616	PT21	BCP141	CK231	LS1	CBT2N	HKY30R	—

ACESSÓRIOS

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

SUPORTE TIPO MG

Referência do Suporte Obsoleto					
Formato	Tamanho	Grampo de Fixação	Parafuso de Fixação	Mola	Chave
MGHR/L	2020K3333	MTK1L/R	HBH06020	MES3	HKY40R
	2020K4447	MTK1L/R	HBH06020	MES3	HKY40R
	3232P5660	MTK2L/R	MGS6	MES3	HKY50R
	3232P5670	MTK2L/R	MGS6	MES3	HKY50R
	3232P5680	MTK2L/R	MGS6	MES3	HKY50R

SUPORTE TIPO MG2

Referência do Suporte Obsoleto					
Formato	Tamanho	Grampo de Fixação	Parafuso de Fixação	Mola	Chave
MG2R/L	2525M4315	MTK1R/L	HBH06020	MES3	HKY40R
	2525M4323	MTK1R/L	HBH06020	MES3	HKY40R
	2525M4333	MTK1R/L	HBH06020	MES3	HKY40R

SUPORTE TIPO MH

Referência do Suporte Obsoleto							
Formato	Tamanho	Calço	Parafuso do Calço	Grampo de Fixação	Parafuso de Fixação	Anel Elástico	Chave
KKCR/L	445	MHS532R/L	SFC03010	MHK5NR/L	MHT1	CE8	HKY40R
		MHS533R/L					
		MHS534R/L					

SUPORTE TIPO MP

Referência do Suporte Obsoleto						
Formato	Tamanho	Calço	Pino de Fixação	Parafuso de Fixação	Anel Elástico	Chave
PVVNN PVPNR/L	3225P16	PV32	P11S	HSP05008C	E03	HKY25R

SUPORTE TIPO MT2

Referência do Suporte Obsoleto					
Formato	Tamanho	Grampo de Fixação	Parafuso de Fixação	Mola	Chave
MT2R/L	2525M4	MTK1L/R	HBH06020	MES3	HKY40R

SUPORTE TIPO SET

Referência do Suporte Obsoleto							
Formato	Tamanho	Grampo de Fixação	Parafuso de Fixação	Anel Elástico	Parafuso do Calço	Calço	Chave
SETHR	1616H16	SETK51	SETS51	CR4	HFC03008	CT32T1	TKY15F HKY20R
	2020K16	SETK51	SETS51	CR4	HFC03008	CT32T1	TKY15F HKY20R
	2525M16	SETK51	SETS51	CR4	HFC03008	CT32T1	TKY15F HKY20R

SUPORTE TIPO SL

Referência do Suporte Obsoleto							
Formato	Tamanho	Calço	Pino de Fixação	Porca	Cunha de Fixação	Parafuso de Fixação	Chave
ETJNR/L ETQNR/L	33K16S	SLSTN33	SLP13	SLN13	SLCW13	SLCS105	HKY25R HKY40R
	44M16S	SLSTN33	SLP13	SLN13	SLCW13	SLCS105	HKY25R HKY40R
	44M22S	SLSTN43	SLP14	SLN14	SLCW14	SLCS106	HKY30R HKY40R
	54P22S	SLSTN43	SLP14	SLN14	SLCW14	SLCS106	HKY30R HKY40R
ETNNR/L	64M22S	SLSTN43	SLP14	SLN14	SLCW14	SLCS106	HKY30R HKY40R
	85M22S	SLSTN43	SLP14	SLN14	SLCW14	SLCS106	HKY30R HKY40R

SUPORTE TIPO SP

Referência do Suporte Obsoleto					
Formato	Tamanho	Parafuso de Fixação	Chave	Calço	Pino do Calço
SDJCR/L SDFCR/L SDXCR/L	0808D07	TS25	TKY08F	—	—
	1010E07	TS25	TKY08F	—	—
	1212F07	TS25	TKY08F	—	—
	1616H11	TS43	TKY15F	—	—
SVJCR/L SVVCN SVPCR/L	0808D11	TS25	TKY08F	—	—
	1010E11	TS25	TKY08F	—	—
	1212F16	TS43	TKY15F	—	—
	3225P16	TS44	TKY15R	SPSVN32	BCP141
SSBCR/L	1616H09	TS43	TKY15F	—	—
SRGCR/L SRXCR/L SRDCN	0808D06	TS25	TKY08F	—	—
	1010E06	TS25	TKY08F	—	—
	1212F06	TS25	TKY08F	—	—
	1010E08	TS3	TKY08F	—	—
	1212F08	TS3	TKY08F	—	—

SUPORTE TIPO SR

Referência do Suporte Obsoleto			
Formato	Tamanho	Parafuso de Fixação	Chave
SRSGR/L	2525M20	TS5	TKY25F
SRSGN	3225P20	TS5	TKY25F

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

SUPORTE TIPO WP (PRODUTO OBSOLETO)

Referência do Suporte Obsoleto									
Formato	Tamanho	Calço	Pino do Calço	Grampo de Fixação	Parafuso de Fixação	Cunha de Fixação	Parafuso de Fixação	Mola	Chave
MTJNR/L	2020K16	SLSTN33	CCP13	CCK13	SLCS105	CPT13	WPS1	MES2	HKY30R HKY40R
	2525M16	SLSTN33	CCP13	CCK13	SLCS105	CPT13	WPS1	MES2	HKY30R HKY40R
	2525M22	SLSTN43	CCP14	CCK14	SLCS106	CPT14	WPS1	MES3	HKY30R HKY40R
MTNNR/L	5032M22	SLSTN43	CCP14	CCK14	SLCS106	CPT14	WPS1	MES3	HKY30R HKY40R
MWLNR/L	2020K08								
	2525M08	WPSWN43	CCP34	CCK13	SLCS105	CPT24	—	MES2	HKY30R HKY40R
	3225P08								

SUPORTE TIPO WP

Referência do Suporte Obsoleto									
Formato	Tamanho	Calço	Pino do Calço	Grampo de Fixação	Parafuso de Fixação	Cunha de Fixação	Parafuso de Fixação	Mola	Chave
MTENN MTQNR/L	2020K16N	WPSTN33	CCP33	CCK13	SLCS105	CPT13	—	MES2	HKY25R HKY40R
	2525M16N	WPSTN33	CCP33	CCK13	SLCS105	CPT13	—	MES2	HKY25R HKY40R
	2525M22N	WPSTN43	CCP34	CCK14	SLCS106	CPT14	—	MES3	HKY30R HKY40R
MTNNR/L	5032M22N	WPSTN43	CCP34	CCK14	SLCS106	CPT14	—	MES3	HKY30TL HKY40R

SUPORTE TIPO AL

Referência do Suporte Obsoleto						
Formato	Tamanho	Calço	Pino do Calço	Alavanca	Parafuso de Fixação	Chave
PTGER/L	2020K16	LLSTE32	LLP13	LLCL131	LLCS106	HKY25R
PTFER/L	2525M16	LLSTE32	LLP13	LLCL131	LLCS106	HKY25R
SVVDN SVPDR/L	1616H16	—	—	—	FC400890T	TKY10F
	2020K16	—	—	—	FC400890T	TKY10F
	2525M16	—	—	—	FC400890T	TKY10F

TORN. DE CANAL/CORTE

SUPORTE TIPO DG

Referência do Suporte Obsoleto					
	Grampo de Fixação	Parafuso do Localizador	Chave	Parafuso de Fixação	Mola
DGHR/L 1616K2G	DGK2R/L	—	HKY40R	DGS51	MES2
DGHR/L 1616K3	DGK3R/L	—	HKY40R	DGS51	MES2
DGHR/L 1616K3G	DGK3R/L	—	HKY40R	DGS51	MES2
DGHR/L 1616KF3	DGK3R/L	—	HKY40R	DGS51	MES2
DGHR/L 2020K	—	HSC04014	HKY30R HKY40R	DGS51	MES2
DGHR/L 2020KFS	—	HSC04014	HKY30R HKY40R	DGS51	MES2
DGHR/L 2020KL	—	HSC04014	HKY30R HKY40R	DGS51	MES2
DGHR/L 2020KLS	—	HSC04014	HKY30R HKY40R	DGS51	MES2
DGHR/L 2020KS	—	HSC04014	HKY30R HKY40R	DGS51	MES2
DGHR/L 2525M	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525MC	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525MCS	—	HSC05010	HKY40R	DGS51	MES2
DGHR/L 2525MF	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525MFS	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525ML	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525MLS	—	HSC05012	HKY40R	DGS51	MES2
DGHR/L 2525MS	—	HSC05012	HKY40R	DGS51	MES2

FERRAMENTAS HSK-T (DG)

Referência do Suporte Obsoleto				
	Parafuso do Localizador	Parafuso de Fixação	Mola	Chave
H63TH-DGHR/LS	HSC05012	DGS51	MES2	HKY40R
H63TH-DGHR/L	HSC05012	DGS51	MES2	HKY40R
H63TH-DGHN-H4	HSC05010	DGS51	MES2	HKY40R
H63TH-DGHN-H5	HSC05012	DGS51	MES2	HKY40R
H63TH-DGHN-H6	HSC05012	DGS51	MES2	HKY40R
H63TH-DGHN-L4	HSC05010	DGS51	MES2	HKY40R
H63TH-DGHN-L5	HSC05012	DGS51	MES2	HKY40R
H63TH-DGHN-L6	HSC05012	DGS51	MES2	HKY40R

SUPORTE UG (TIPO LÂMINA)

Referência do Suporte Obsoleto	
	Chave
UGHN262	UGS1
UGHN263	UGS1
UGHN264	UGS1
UGHN265	UGS1
UGHN322	UGS1
UGHN323	UGS1
UGHN324	UGS1
UGHN325	UGS1

SUPORTE UG (TIPO HASTE QUADRADA)

Referência do Suporte Obsoleto	
	Chave
UGHR/L1616H2	UGS1
UGHR/L1616H3	UGS1
UGHR/L2020K2A	UGS1
UGHR/L2020K2	UGS1
UGHR/L2020K3A	UGS1
UGHR/L2020K3	UGS1
UGHR/L2525M3	UGS1
UGHR/L2525M4	UGS1

FERRAMENTA BLOCO PARA SUPORTE UG

Referência do Suporte Obsoleto	Bloco			Corpo	
					
	Grampo de Fixação	Parafuso de Fixação	Chave	Parafuso de Montagem	Chave
KGBN26-20	KGC1	LST15T	TKY25R	HSC08016	HKY60R
KGBN26-25	KGC1	LST15T	TKY25R	HSC08016	HKY60R
KGBN32-20	KGC1	LST15T	TKY25R	HSC08016	HKY60R
KGBN32-25	KGC1	LST15T	TKY25R	HSC08016	HKY60R

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

SUORTES PARA TORNEAMENTO INTERNO

COBRA

Referência do Suporte Obsoleto		
	Parafuso de Fixação	Chave
S08HSTFPR09	TS253	TKY08F
S10KSTFPR09	TS25	TKY08F
S000STFPR11	TS3	TKY08F
S000STFPR16	TS4	TKY15F
S000SCLPR/L08	TS3	TKY08F
S000SCLPR/L09	TS4	TKY15F
S000SWLPR/L04	TS25	TKY08F
S000SWLPR/L06	TS4	TKY15F

COBRA (HASTE DE METAL DURO)

Referência do Suporte Obsoleto		
	Parafuso de Fixação	Chave
E08KSTFPR09	TS253	TKY08F
E10MSTFPR09	TS25	TKY08F
E000STFPR11	TS3	TKY08F
E000SCLPR08	TS3	TKY08F
E000SCLPR09	TS4	TKY15F

TIPO D (PARA MANDRILAMENTO)

Referência do Suporte Obsoleto									
Formato	Tamanho	Calço	Pino do Calço	Alavanca	Parafuso de Fixação	Conjunto de Fixação	Quebra-cavaco Mecânico	Anel Elástico	Chave
DPSK	132R/L	LLSSN42	LLP14	LLCL14	LLCS108	—	—	—	HKY30R
	140R/L	LLSSN42	LLP14	LLCL14	LLCS108	—	—	—	HKY30R
	150R/L	LLSSN63	LLP16	LLCL16	LLCS110	—	—	—	HKY40R
	163R/L	LLSSN63	LLP16	LLCL16	LLCS110	—	—	—	HKY40R
DPTF	150R/L	LLSTN42	LLP14	LLCL14	LLCS108	—	—	—	HKY30R
	163R/L	LLSTN42	LLP14	LLCL14	LLCS108	—	—	—	HKY30R
DPDU	132R/L	LLSDN42	LLP14	LLCL24	LLCS108	—	—	—	HKY30R
DPDH	140R/L	LLSDN42	LLP14	LLCL24	LLCS108	—	—	—	HKY30R
DPDZ	* 150R/L	LLSDN53	LLP15	LLCL15	LLCS208	—	—	—	HKY30R
DPCL	150R/L	LLSCN63	LLP16	LLCL16	LLCS110	—	—	—	HKY40R
	163R/L	LLSCN63	LLP16	LLCL16	LLCS110	—	—	—	HKY40R
DPVP	150R/L	PV322	P11S	—	HSP05008C	—	—	E03	HKY25R
DCTU	132R/L	PT32	BCP201	—	—	C4	CBT3N	—	HKY30R
	140R/L	PT42	BCP251	—	—	C5	CBT4F	—	HKY40R
	150R/L	PT42	BCP251	—	—	C5	CBT4F	—	HKY40R

*DPDH150R/L pode ser compatível com 140R/L.

TIPO D (PARA CANAL E ROSQUEAMENTO)

Referência do Suporte Obsoleto					
Formato	Tamanho	Pino de Fixação	Parafuso de Fixação	Anel Elástico	Chave
DPT2	132R	P21S	HSP08014	E01	HKY40R
	140R	P21S	HSP08014	E01	HKY40R
DPT4	132R	P21S	HSP08014	E01	HKY40R
	140R	P21S	HSP08014	E01	HKY40R

TIPO F

Referência do Suporte Obsoleto						
Formato	Tamanho	Calço	Pino do Calço	Conjunto de Fixação	Quebra-cavaco Mecânico	Chave
FCSK	116R/L	—	—	C3	CBS3	HKY25R
	120R/L	—	—	C3	CBS3	HKY25R
	125R/L	PS42	BCP252	C4	CBS4F	HKY30R
	132R/L	PS42	BCP251	C4	CBS4F	HKY30R
FCSK	216R/L	—	—	C3	CBS3	HKY25R
	220R/L	—	—	C3	CBS3	HKY25R
	225R/L	PS42	BCP252	C4	CBS4F	HKY30R
FCTU	232R/L	PT32	BCP201	C4	CBT3F	HKY30R

TIPO F (PARA CANAL E ROSQUEAMENTO)

Referência do Suporte Obsoleto								
Formato	Tamanho	Grampo de Fixação	Conjunto de Fixação	Parafuso de Fixação	Calço	Pino do Calço	Anel Elástico	Chave
FCL5	116R/L	LK1	—	HBH04012	—	—	—	HKY25R
	120R/L	LK1	—	HBH04012	—	—	—	HKY25R
	125R/L	LK1	—	HBH04012	—	—	—	HKY25R
	132R/L	LK1	—	HBH04012	—	—	—	HKY25R
	216R/L	LK1	—	HBH04012	—	—	—	HKY25R
	220R/L	LK1	—	HBH04012	—	—	—	HKY25R
	225R/L	LK1	—	HBH04012	—	—	—	HKY25R
NTF	M16R	—	C3	—	—	—	—	HKY25R
	Q20R	—	C4	—	—	—	—	HKY30R
	R25R	—	C4	—	—	—	—	HKY30R
	R216R	—	C3	—	—	—	—	HKY25R
	S220R	—	C4	—	—	—	—	HKY30R
	T225R	—	C4	—	—	—	—	HKY30R
SNTF	K16R11	—	—	TS25	—	—	—	TKY08F
	M16R	—	—	CS350860T	—	—	—	TKY15F
	P20R	SETK51	—	SETS51	CT32T1	HFC03008	CR4	TKY15F HKY20R
	R25R	SETK51	—	SETS51	CT32T1	HFC03008	CR4	TKY15F HKY20R
	M210R11	—	—	TS25	—	—	—	TKY08F
	Q212R11	—	—	TS25	—	—	—	TKY08F
	R216R	—	—	CS350860T	—	—	—	TKY15F
	S220R	SETK51	—	SETS51	CT32T1	HFC03008	CR4	TKY15F
	T225R	SETK51	—	SETS51	CT32T1	HFC03008	CR4	TKY15F
FCDG4	120R/L3M	—	BC5	—	—	—	—	TKY20R
	125R/L3M	—	BC5	—	—	—	—	TKY20R
	132R/L3M	—	BC5	—	—	—	—	TKY20R
	120R/L4M	—	BC5	—	—	—	—	TKY20R
	125R/L4M	—	BC5	—	—	—	—	TKY20R
	132R/L4M	—	BC5	—	—	—	—	TKY20R
	125R/L5M	—	BC5	—	—	—	—	TKY20R
	132R/L5M	—	BC5	—	—	—	—	TKY20R
FCDG4	120R/L4J	—	BC5	—	—	—	—	TKY20R
	125R/L4J	—	BC5	—	—	—	—	TKY20R
	132R/L4J	—	BC5	—	—	—	—	TKY20R
	125R/L5J	—	BC5	—	—	—	—	TKY20R
	132R/L5J	—	BC5	—	—	—	—	TKY20R

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

TIPO M

Referência do Suporte Obsoleto								
	Calço	Pino do Calço	Grampo de Fixação	Cunha de Fixação	Mola	Parafuso de Fixação	Chave	Plug
A25RMWLNR/L08	—	—	CCK13	CPT24	MES2	SLCS105	HKY25R HKY40R	HGM-PT1/4
A32SMWLNR/L08	WPSWC43	CCP44	CCK13	CPT24	MES2	SLCS105	HKY25R HKY40R	HGM-PT3/8
A40TMWLNR/L08	WPSWC43	CCP44	CCK13	CPT24	MES2	SLCS105	HKY25R HKY40R	HGM-PT3/8

TIPO P

Referência do Suporte Obsoleto						
	Calço	Pino do Calço	Alavanca	Parafuso de Fixação	Chave	Plug
A50UPSKNR/L19	LLSSP63	LLP16	LLCL16	LLCS310	HKY40R	HGM-PT3/8
A40TPCLNR/L16	LLSCN53	LLP15	LLCL25	LLCS508	HKY30R	HGM-PT3/8
A50UPCLNR/L19	LLSCP63	LLP16	LLCL16	LLCS310	HKY40R	HGM-PT3/8

TIPO S (HASTE DE METAL DURO)

Referência do Suporte Obsoleto		
	Parafuso de Fixação	Chave
C○○○SSKCR/L09	TS4	TKY15F
C○○○SDUCR/L15	TS5	TKY25F
C○○○SVUCR/L11	TS25	TKY08F
C○○○SVUCR/L16	TS4	TKY15F
C○○○SCLCR/L12	TS5	TKY25F
C○○○SCZCR/L06	TS25	TKY08F
C○○○SCZCR/L09	TS4	TKY15F
C○○○SCZCR/L12	TS5	TKY25F
C○○○SDZCR11	TS4	TKY15F

TIPO S (HASTE DE AÇO)

Referência do Suporte Obsoleto		
	Parafuso de Fixação	Chave
S○○○SSKCR/L12	TS5	TKY25F
S○○○SDQCR/L15	TS5	TKY25F
S○○○SCZCR/L06	TS25	TKY08F
S○○○SCZCR/L09	TS4	TKY15F
S○○○SCZCR/L12	TS5	TKY25F
S○○○SDZCR11	TS4	TKY15F

HASTE PARA CABEÇA DE MANDRILAR TIPO D

Referência do Suporte Obsoleto		
	Parafuso de Montagem	Chave
B14550	SD50	HKY80R
B15050	SD50	HKY80R
B15563	SD63	HKY80R
B16363	SD63	HKY80R
B16563	SD63	HKY80R

UNIDADE MICROMÉTRICA PARA MANDRILAMENTO

UNIDADE

Referência do Suporte Obsoleto				Bucha	Arruela	Mola de Pressão
	Parafuso da Arruela	Parafuso da Bucha	Chave			
NA1	HFC03008	HY-A1	HKY20R	As peças acima não podem ser vendidas separadamente pois a precisão só pode ser garantida com o conjunto completo. Por favor, entre em contato para esclarecimentos em caso de reposição.		
NV1	HFC03008	HY-V1	HKY20R			
NA2	HSC03010	HY2	HKY20R HKY25R			
NV2	HSC03010	HY2	HS-N2 HKY25R			
NA3	HSC04010	HY3	HKY20R HKY30R			
NV3	HSC04010	HY3	HKY20R HKY30R			
NA4	HSC05012	HY4	HKY30R HKY40R			
NV4	HSC05012	HY4	HKY30R HKY40R			

CÁPSULA

Referência do Suporte Obsoleto						
	Alavanca	Parafuso de Fixação	Calço	Pino do Calço	Chave Reguladora	Chave
NASP11	—	CS250T	—	—	HR12	TKY08F
NVSP11	—	CS250T	—	—	HR12	TKY08F
NASP21	—	CS300890T	—	—	HR12	TKY08F
NVSP21	—	CS300890T	—	—	HR12	TKY08F
NAPN21	LLCL12S	LLCS103	—	—	HR12	HKY20F
NVPN21	LLCL12S	LLCS103	—	—	HR12	HKY20F
NASP31	—	CS300890T	—	—	HR34	TKY08F
NVSP31	—	CS300890T	—	—	HR34	TKY08F
NAPN31	LLCL12S	LLCS103	—	—	HR34	HKY20F
NVPN31	LLCL12S	LLCS103	—	—	HR34	HKY20F
NAPN41	LLCL13	LLCS106	LLSTN32	LLP13	HR34	HKY25F
NVPN41	LLCL13	LLCS106	LLSTN32	LLP13	HR34	HKY25F

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

CÁPSULA

CÁPSULA MK - TIPO NEGATIVO

Referência do Suporte Obsoleto		 CS  CT		 CBS	 CBT							
Formato	Tamanho	Calço	Pino do Calço	Quebra-cavaco			Grampo de Fixação	Parafuso de Fixação	Parafuso Radial	Parafuso Axial	Parafuso para Fixação	Chave
				Desbaste	Geral	Acabamento						
K11R/L K12R/L K14R/L	33	CS42	BCP301	CBS4	CBS4N	CBS4F	CK341	LS2	HSS08012	KS2	KS14	HKY30R/40R/50R
	44	CS62	BCP401	CBS6	CBS6N	CBS6F	CK342	LS3	HSS08016	KS2	KS14	HKY30R/40R/50R
K13R/L	33	CS42	BCP301	—	CBS4N	—	CK341	LS6(LS7)	HSS08012	KS2	KS14	HKY30R/40R/50R
	44	CS62	BCP401	—	CBS6N	—	CK342	LS2	HSS08016	KS2	KS14	HKY30R/40R/50R
K21R/L K22R/L K23R/L K24R/L	33	CT32	BCP301	CBT3	CBT3N	CBT3F	CK341	LS2	HSS08012	KS2	KS14	HKY30R/40R/50R
	44	CT42	BCP401	CBT4	CBT4N	CBT4F	CK341/2*1	LS3	HSS08016	KS2	KS14	HKY30R/40R/50R

*1 Use CK341 para K23R/L44 e K24R/L44.

CÁPSULA MK - TIPO POSITIVO

Referência do Suporte Obsoleto													
Formato	Tamanho	Calço	Pino do Calço	Quebra-cavaco			Grampo de Fixação	Parafuso de Fixação	Parafuso Radial	Parafuso Axial	Parafuso para Fixação	Chave	
				Desbaste	Geral	Acabamento							
H11R/L H12R/L H14R/L	00	—	—	—	CBS3	—	CK232	LS4	HSS04008	KS1	KS11	HKY20R/30R	
	11	—	—	—	CBS3	—	CK232	LS4(LS5)	HSS06008	KS2	KS12	HKY30R/40R	
	22	—	—	—	CBS4	CBS4N	CBS4F	CK341	LS6	HSS08012	KS2	KS13	HKY30R/40R
	33	PS42	BCP251	—	CBS4	CBS4N	CBS4F	CK341	LS6(LS7)	HSS08012	KS2	KS14	HKY30R/40R/50R
	44	PS62	BCP301	—	CBS6	CBS6N	CBS6F	CK342	LS2	HSS08016	KS2	KS14	HKY30R/40R/50R
H13R/L	00	—	—	—	CBS3D	—	CK232	LS4	HSS04008	KS1	KS11	HKY20R/30R	
	11	—	—	—	CBS3D	—	CK232	LS4(LS5)	HSS06008	KS2	KS12	HKY30R/40R	
	22	—	—	—	CBS4D	—	CK341	LS6	HSS08012	KS2	KS13	HKY30R/40R	
	33	PS42	BCP251	—	CBS4D	—	CK341	LS6(LS7)	HSS08012	KS2	KS14	HKY30R/40R/50R	
	44	PS62	BCP301	—	CBS6D	—	CK342	LS2	HSS08016	KS2	KS14	HKY30R/40R/50R	
H21R/L H22R/L H23R/L H24R/L	00	—	—	—	CBT2	CBT2N	—	CK231	LS4	HSS04008	KS1	KS11	HKY20R/30R
	11	—	—	—	CBT2	CBT2N	—	CK231	LS4(LS5)	HSS06008	KS2	KS12	HKY30R/40R
	22	—	—	—	CBT3	CBT3N	CBT3F	CK341	LS6	HSS08012	KS2	KS13	HKY30R/40R
	33	—	—	—	CBT3	CBT3N	CBT3F	CK341	LS6(LS7)	HSS08012	KS2	KS14	HKY30R/40R/50R
	44	—	—	—	CBT4	CBT4N	CBT4F	CK341/2*1	LS2	HSS08016	KS2	KS14	HKY30R/40R/50R

*1 Use CK341 para H24R/L.

CÁPSULA TIPO LL

Referência do Suporte Obsoleto									
Formato	Tamanho	Calço	Pino do Calço	Alavanca	Parafuso de Fixação	Parafuso Radial	Parafuso Axial	Parafuso para Fixação	Chave
PSYNR/L PSKNR/L PSSNR/L	20CA15	LLSSN53	LLP15	LLCL25	LLCS508S	LLR2	KS2	HSC08030	HKY30R

CÁPSULA TIPO SS

Referência do Suporte Obsoleto						
Formato	Tamanho	Parafuso de Fixação	Parafuso Radial	Parafuso Axial	Parafuso para Fixação	Chave
SSYP	13R/L	S4	HSS05006	KS1	HSC06014	HKY25F
SSKP	17R/L	S5	HSS06006	KS3	HSC06014	HKY30F
SSSP	15R/L	S4	HSS05006	KS1	HSC06014	HKY25F
SSTP	22R/L	S5	HSS06006	KS2	HSC08020	HKY30F
STGP STFP	13R/L	S3	HSS04006	KS1	HSC06014	HKY25F
STSP STTP	17R/L	S4	HSS05006	KS1	HSC06014	HKY25F

FRESAS DE FACEAR

AF5000

Referência do Suporte Obsoleto						Fresa Recomendada
	Cunha	Parafuso de Fixação	Parafuso de Regulagem	Chave	Chave	
AF5000	CWAF5R/L	LS10T	KS1S	TKY25T	HKY15R	NF10000 ( L096)

BAP300

Referência do Suporte Obsoleto			Fresa Recomendada
	Parafuso de Fixação	Chave	
BAP300	TS25	TKY08F	APX3000 ( L136)

BAP400

Referência do Suporte Obsoleto		 	Fresa Recomendada
	Parafuso de Fixação	Chave	
BAP400-040A04R	TS43	TKY15F	APX4000 ( L146)
BAP400-050A05R	TS43	TKY15F	
BAP400-063A06R	TS43	TKY15F	
BAP400R0307C	TS43	TKY15F	
BAP400R0408D	TS43	TKY15F	
BAP400R0509E	TS43	TKY15D	
BAP400R0610E	TS43	TKY15D	

BF407

Referência do Suporte Obsoleto					Fresa Recomendada
	Cunha	Parafuso de Fixação	Parafuso de Ajuste	Chave	
BF407R0812K	CWSF407TR2	LS15T	CAS51T	TKY25T	FMAX ( L089)
BF407R1016K	CWSF407TR2	LS15T	CAS51T	TKY25T	
BF407R1218P	CWSF407TR2	LS15T	CAS51T	TKY25T	

BN425

Referência do Suporte Obsoleto				Fresa Recomendada
	Cunha	Parafuso de Fixação	Chave	
BN425	CWS43SNN	LS14T	TKY25T	WSX445 ( L040)

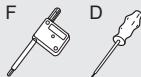
BOE

Referência do Suporte Obsoleto						Fresa Recomendada
	Parafuso de Montagem	Parafuso de Montagem	Parafuso de Fixação	Chave (Parafuso de Fixação)	Chave (Parafuso do Conjunto)	
BOER0202B	LS21	—	CS501290T	TKY25T	HKY50R	OCTACUT ( L258)
BOE-050A02R	LS20	—	CS501290T	TKY25T	HKY50R	
BOER2H03B	—	BOES101	CS501290T	TKY25T	HKY80R	
BOE-063A03R	—	BOES101	CS501290T	TKY25T	HKY80R	
BOER0304C	—	—	CS501290T	TKY25T	—	
BOER0405D	—	HSC16035	CS501290T	TKY25T	—	

ACESSÓRIOS

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

BSX400

Referência do Suporte Obsoleto			Fresa Recomendada
	Parafuso de Fixação	Chave	
BSX400R05004A	TS43	TKY15F	WWX400 (ⓈL100)
BSX400R06305A	TS43	TKY15F	
BSX400R08006C	TS43	TKY15F	
BSX400R10008D	TS43	TKY15F	
BSX400R12510E	TS43	TKY15D	
BSX400R16012E	TS43	TKY15D	

BSX500

Referência do Suporte Obsoleto					Fresa Recomendada
	Parafuso de Fixação	Parafuso do Calço	Calço	Chave	
BSX500	CSF401260T	WCS604010H	STBS500N	TKY20D	WWX400 (ⓈL100)

BXD7000

Referência do Suporte Obsoleto		Chave	Fresa Recomendada
	Parafuso de Fixação		
BXD7000	TS5SL	TKY25D	AXD7000 (ⓈL208)

BZC400

Referência do Suporte Obsoleto					Fresa Recomendada
	Parafuso de Fixação	Parafuso de Montagem	Chave (Parafuso de Fixação)	Chave (Parafuso de Montagem)	
BZC400-032A03R	CS350990T	LS24	TKY10F	HKY40R	WWX400 (ⓈL100)
BZC400-040A04R	CS350990T	—	TKY10F	—	
BZC400R0408D	CS350990T	—	TKY10F	—	

E404

Referência do Suporte Obsoleto									Fresa Recomendada
	Localizador	Parafuso do Localizador	Calço	Parafuso do Calço	Cunha	Parafuso de Fixação (Cunha)	Chave	Chave	
E404	SSE41R	SPS1	SCD43	STS1	CWS3R/L	WS1	TKY10R	TKY25T	FMAX (ⓈL089)

FBP415

Referência do Suporte Obsoleto							Fresa Recomendada
	Calço	Cunha-T	Parafuso de Fixação	Parafuso do Calço	Chave (Parafuso de Fixação)	Chave (Parafuso do Calço)	
FBP415R0308C	STSP415R	CWSP415TR	LS10T	TS32	TKY25T	TKY08F	WSF406 (ⓈL084)
FBP415R0410D							
FBP415R0514E							
FBP415R0618F							
FBP415R0822K							
FBP415R1028K							
FBP415R1234P							

FN548

Referência do Suporte Obsoleto				Chave	Cabeça Hexagonal	Fresa Recomendada
	Cunha	Parafuso de Fixação	Chave			
FN548	CWS4	LS14	HKY40T	120QSPK x 80 (KANNON-SEIKI CO.)	6.35□ x 4 (KYOKUTO MFG CO.)	—

LSE445

Referência do Suporte Obsoleto							Fresa Recomendada
	Calço	Parafuso do Calço	Cunha	Parafuso de Fixação	Chave (Parafuso de Fixação)	Chave (Parafuso do Calço)	
LSE445	STBE445NF	CS300890T	CWSE445TR	LS15T	TKY25T	TKY08F	WSX445(ⓈL040)

MG300, 400

Referência do Suporte Obsoleto			Fresa Recomendada
	Parafuso de Fixação	Chave	
MG300	CS350990T	TKY10F	—
MG400	CS451190T	TKY20F	WSX400(ⓈL100)

MG345, 445

Referência do Suporte Obsoleto			Fresa Recomendada
	Parafuso de Fixação	Chave	
MG345	CS350990T	TKY10F	WSX445(ⓈL040)
MG445	CS451190T	TKY20F	

MGP445

Referência do Suporte Obsoleto			Fresa Recomendada
	Parafuso de Fixação	Chave	
MGP445	CS401160T	TKY15D	WSX445(ⓈL040)

MSD445

Referência do Suporte Obsoleto				Fresa Recomendada
	Cunha	Parafuso de Fixação	Chave	
MSD445	CWMSE445R2	LS15T	TKY25T	WSX445(ⓈL040)

MSE445

Referência do Suporte Obsoleto				Fresa Recomendada
	Cunha	Parafuso de Fixação	Chave	
MSE445	CWMSE445R2	LS15T	TKY25T	WSX445(ⓈL040)

NR10000

Referência do Suporte Obsoleto							Fresa Recomendada
	Cunha	Parafuso de Fixação	Cunha de Ajuste	Parafuso de Ajuste	Parafuso de Fixação	Chave	
NR10000	CWAF10R2	LS10T	CWAF10N	LS15T	CSAF10	TKY25T	—

ACESSÓRIOS

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

NSE300

Referência do Suporte Obsoleto			 *					Fresa Recomendada
	Localizador	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	Parafuso de Montagem	
NSE300-050A04R	SPTSE300R	CWTSE300TR	LS19T	TS32	TKY15T	TKY08F	—	WWX400(⌀L100)
NSE300-063A05R							HSC16035	
NSE300R0408D		CWNSE300TR	LS10T		TKY25T		—	
NSE300R0306C								
NSE300R0510E								
NSE300R0612F								
NSE300R504S32	CWTSE300TR	LS19T	TKY15T					
NSE300R635S32								

★ Torque de Fixação (N • m) : LS10T=8.5, LS19T=5.0, TS32=1.0

NSE400

Referência do Suporte Obsoleto								Fresa Recomendada
	Localizador	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	Parafuso de Montagem	
NSE400R0306C	SPTSE400R	CWSE300TR	LS10TS	TS32	TKY25T	TKY08F	—	WWX400(⌀L100)
NSE400R0407D							HSC16035	
NSE400R0508E								
NSE400R0610F								
NSE400R503S32								
NSE400R634S32								

P425, P525

Referência do Suporte Obsoleto									Fresa Recomendada
	Localizador	Parafuso do Localizador	Calço	Parafuso do Calço	Cunha	Parafuso de Fixação (Cunha)	Chave	Chave	
P425	SSP41R	SPS1	SCP431R/L	STS1	CWS1R/L	WS1	TKY10R	TKY25T	WSX445(⌀L040)
P525	SSP51R	SPS1	SCP521R/L	STS1	CWS1R/L	WS1	TKY10R	TKY25T	

QBF407

Referência do Suporte Obsoleto							Fresa Recomendada
	Cunha	Parafuso de Fixação	Parafuso de Ajuste	Placa Direcionadora	Parafuso de Encosto	Chave	
QBF407R0304Q	CWSF407TR1	LS15T	CAS51T	QPAR1	TFC04010	TKY20R TKY25T	—
QBF407R0406Q	CWSF407TR1	LS15T	CAS51T	QPAR1	TFC04010	TKY20R TKY25T	
QBF407R0508Q	CWSF407TR2	LS15T	CAS51T	QPAR1	TFC04010	TKY20R TKY25T	

QBP415

Referência do Suporte Obsoleto						Fresa Recomendada
	Calço	Parafuso do Calço	Cunha-T	Parafuso de Fixação	Chave	
QBP415	STSP415R	TS32	QWGR1	LS10T	TKY25T	—

QF10000

Referência do Suporte Obsoleto									Fresa Recomendada
	Cunha	Parafuso de Fixação	Placa Direcionadora	Parafuso de Encosto	Cunha de Ajuste	Parafuso de Ajuste	Parafuso de Fixação	Chave	
QF10000	CWAF10R3	LS15T	QPCR1	TFC04010	CWAF10N	LS10T	CSAF10	TKY20T TKY25T	—

QSE415

Referência do Suporte Obsoleto							Fresa Recomendada
	Cunha	Parafuso de Fixação	Parafuso de Ajuste	Placa Direcionadora	Parafuso de Encosto	Chave	
QSE415	CWSF407TR3	LS15T	CAS51T	QPAR1	TFC04010	TKY20R TKY25T	—

SE300

Referência do Suporte Obsoleto								Fresa Recomendada
	Localizador	Localizador (Alisador)	Cunha-T	Cunha-S	Cunha-S (Alisador)	Parafuso de Fixação	Chave	
SE300	SPSE300R	SPSEW300R	CWNSE300TR	CWSE300SN	CWSEW300SN	LS10T	TKY25T	WWX400 (L100)

SE400

Referência do Suporte Obsoleto							Fresa Recomendada
	Localizador	Localizador (Alisador)	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	
SE400	SPSE400R	SPSEW400R	CWSE400TN	CWSE400SN	LS15T (SE400R0304C:LS10T)	TKY25T	WWX400 (L100)

SE415

Referência do Suporte Obsoleto								Fresa Recomendada
	Localizador	Calço	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	Parafuso de Montagem	
SE415R0304C SE415R0306C	SPSE415R	STSE415R	CWSE445TR	CWSE445SN	LS15T	TKY25T	HSC12035	—
SE415R0405D SE415R0407D							HSC16035	
SE415R0506E SE415R0611F							—	

* Torque de Fixação (N • m) : LS15T=8.5

SE515

Referência do Suporte Obsoleto								Fresa Recomendada
	Localizador	Calço	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	Parafuso de Montagem	
SE515R0405D 0407D	SPSE515R	STSE515R	CWSE545TR	CWSE545SN	LS15T	TKY25T	HSC16035	—
SE515R0506E SE515R0611F							—	

* Torque de Fixação (N • m) : LS15T=8.0

SE445

Referência do Suporte Obsoleto								Fresa Recomendada
	Localizador	Calço	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	Parafuso de Montagem	
SE445R/L03 	SPSE445R/L	STSE445R/L	CWSE445TR/L	CWSE445SN	LS15T	TKY25T	HSC12035	WSX445 (L040)
SE445R/L04 							HSC16035	
SE445R/L0506E SE445R/L1214P							—	

* Torque de Fixação (N • m) : LS15T=8.5

ACESSÓRIOS

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

SE545

Referência do Suporte Obsoleto								Fresa Recomendada
SE545R0405D	Localizador	Calço	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	Parafuso de Montagem	
SE545R0506E SE545R1012K	SPSE545R	STSE545R	CWSE545TR	CWSE545SN	LS15T	TKY25T	HSC16035 —	WSX445(ⓈL040)

* Torque de Fixação (N • m) : LS15T=8.5

SG20

Referência do Suporte Obsoleto							Fresa Recomendada
SG20R0304C	Localizador	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	Parafuso de Montagem	
SG20R0405D	SPSG20R	CWSG20TR	CWSG20SN	LS15T	TKY25T	—	—
SG20R0506E						HSC16035	
SG20R0608F						—	

* Torque de Fixação (N • m) : LS15T=8.0

SHP400

Referência do Suporte Obsoleto						Fresa Recomendada
SHP400	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	
	CWSE300TR/L	LS10T	TS32	TKY25T	TKY08F	WWX400(ⓈL100)

VIP400

Referência do Suporte Obsoleto			Fresa Recomendada
VIP400	Parafuso de Fixação	Chave	
	CS501160T	TKY20F	WWX400(ⓈL100)

VIP445

Referência do Suporte Obsoleto			Fresa Recomendada
VIP445	Parafuso de Fixação	Chave	
	CS501160T	TKY20F	WSX445(ⓈL040)

V10000

Referência do Suporte Obsoleto								Fresa Recomendada
V10000-063A04R V10000R0508E	Cápsula	Parafuso de Fixação da Cápsula - A	Parafuso de Fixação da Cápsula - B	Parafuso de Fixação do Inserto	Parafuso de Ajuste Axial	Chave	Chave	
	VCT13R	HBH06016	HBH04008	CS350790T	KS1	HKY25R HKY40R	TKY10R	FMAX(ⓈL089)

* Torque de Fixação (N • m) : CS350790T=3.5, HBH06016=8.0, HBH04008=4.0

FRESAS DE TOPO INTERCAMBIÁVEIS

BAE

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BAE500R161S16	TS42	TKY15F	APX4000 ()
BAE500R201S20	TS42	TKY15F	
BAE500R252S25	TS42	TKY15F	
BAE500R323S32	TS4	TKY15F	
BAE500R403S32	TS4	TKY15F	
BAE500R504S32	TS4	TKY15F	
BAE600	TS52	TKY25F	—

BAP300 PARA REBAIXO / BAP300 PARA FRESAMENTO PROFUNDO

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BAP300	TS25	TKY08F	—

BAP400

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BAP400R252S25	TS4	TKY15F	APX4000 ()
BAP400R323S32	TS43	TKY15F	
BAP400R404S32	TS43	TKY15F	
BAP400R505S32	TS43	TKY15F	
BAP400R636S32	TS43	TKY15F	

BAP400 (Aresta de corte longa)

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BAP400 (Aresta de corte longa)	TS43	TKY15F	APX4000 ()

BAP3500

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BAP3500R161SA16 	TS3	TKY08F	APX3000 ()
BAP3500R161SN16 	TS3	TKY08F	
BAP3500R202SA20 	TS32	TKY08F	
BAP3500R202SN20 	TS32	TKY08F	
BAP3500R253SA25 	TS32	TKY08F	
BAP3500R253SN25 	TS32	TKY08F	
BAP3500R324SA32 	TS32	TKY08F	
BAP3500R324SN32 	TS32	TKY08F	
BAP3500R405SA32 	TS32	TKY08F	
BAP3500R405SN32 	TS32	TKY08F	

ACESSÓRIOS

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

BOE

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BOE	CS501290T	TKY25T	OCTACUT ( L258)

BRE

Referência do Suporte Obsoleto						Fresa de Topo Recomendada
	Parafuso de Fixação	Grampo de Fixação	Parafuso de Fixação (Grampo)	Mola	Chave	
BRE	TS5S	AMS5	BRS105	ASS3	TKY25R	BRP ( L274)

BSP

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BSPR	CS451190T	TKY20F	—

BSX300

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BSX300	TS32	TKY08F	WWX400 ( L103)

BSX400

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BSX400	TS43	TKY15F	WWX400 ( L103)

BSX500

Referência do Suporte Obsoleto					Fresa de Topo Recomendada
	Parafuso de Fixação	Parafuso do Calço	Calço	Chave	
BSX500	CSF401260T	WCS604010H	STBS500N	TKY20D	WWX400 ( L103)

BXD7000

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BXD7000R251SA25SA/B	TS5S	TKY25D	AXD7000 ( L208)
BXD7000R321SA32SA/B	TS5S	TKY25D	
BXD7000R402SA42SA/B	TS5SL	TKY25D	

BZC400

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
BZC400	CS350990T	TKY10F	APX4000 ( L146)

CV

Referência do Suporte Obsoleto						Fresa de Topo Recomendada
	Parafuso de Fixação	Grampo de Fixação	Parafuso de Fixação (Grampo)	Mola	Chave	
CV10R253S32	TS4	AMS3	BRS103	ASS2	TKY15R	BRP ()
CV12R323S32	TS4	AMS3	BRS103	ASS2	TKY15R	
CV16R403S32	TS5	AMS5	BRS105	ASS3	TKY25R	

CV20

Referência do Suporte Obsoleto				Fresa de Topo Recomendada
	Parafuso de Fixação	Cunha	Chave	
CV20R403S32	LS14T	CWCV20	TKY25T	—

DCSD, DCSN

Referência do Suporte Obsoleto							Fresa de Topo Recomendada
	Parafuso do Calço	Parafuso de Fixação	Parafuso do Calço	Parafuso de Fixação	Chave	Chave	
DCSDR2040SS	—	HS4S	—	DKS4	HKY30R	HKY25T	SPX ()
DCSDR2050SS	—	HS4S	—	DKS4	HKY30R	HKY25T	
DCSDR2063SN	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSDR2063LN	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSDR2080SN	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSDR2100SN	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSNR2063SN	JSS7	TS5L (HS5L)	JSS7	DKS5	HKY40R	TKY25T	
DCSNR2063LN	JSS7	TS5L (HS5L)	JSS7	DKS5	HKY40R	TKY25T	
DCSDR2040SB	—	HS4S	—	DKS4	HKY30R	HKY25T	
DCSDR2050SB	—	HS4S	—	DKS4	HKY30R	HKY25T	
DCSDR2063SB	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSDR2063LN	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSNR2063SB	JSS7	TS5L (HS5L)	JSS7	DKS5	HKY40R	TKY25T	
DCSDR2080SA	—	TS5S (HS5S)	—	DKS5	HKY40R	TKY25T	
DCSNR2080SA	JSS7	TS5L (HS5L)	JSS7	DKS5	HKY40R	TKY25T	

ECMP

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
ECMP252S25	TS4	TKY15R	—
ECMP322S32	TS5	TKY25R	
ECMP402S42	TS5	TKY25R	

FF3000

Referência do Suporte Obsoleto				Fresa de Topo Recomendada
	Calço	Pino de Fixação	Chave	
FF3000	FFSS	FFP	HKY25L	—

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

FSTE

Referência do Suporte Obsoleto						Fresa de Topo Recomendada
	Localizador	Cunha	Parafuso de Fixação	Parafuso do Localizador	Chave	
FSTE	TS441R	CWFSTE	LS10T	CPM03008	TKY25T	WWX400 ()

PMR

Referência do Suporte Obsoleto		 *	 *				Fresa de Topo Recomendada
	Calço	Parafuso do Calço	Parafuso de Fixação do Inserto	Chave (Inserto)	Chave (Calço)	Parafuso de Montagem	
PMR608004A27R	STPMR6N	WCS604010H	CSF401260T	TKY20D	HKY40R	HSC12035	—
PMR608004DR	STPMR6N	WCS604010H	CSF401260T	TKY20D	HKY40R	HSC16040	

* Torque de Fixação (N • m) : TPS35=3.5, WCS604010H=7.0

MG200, 300

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
MG200	CS300890T	TKY08F	—
MG300	CS350990T	TKY10F	
			WWX400 ()

MG245, 345

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
MG245	CS300890T	TKY08F	WSX445 ()
MG345	CS350990T	TKY10F	

MSE445

Referência do Suporte Obsoleto				Fresa de Topo Recomendada
	Cunha	Parafuso de Fixação	Chave	
MSE445	CWMSE445R1	LS15T	TKY25T	WSX445 ()

NSE300

Referência do Suporte Obsoleto							Fresa de Topo Recomendada
	Localizador	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	
NSE300R504S32 NSE300R635S32	SPTSE300R	CWTSE300TR	LS19T	TS32	TKY15T	TKY08F	WWX400 ()

NSE400

Referência do Suporte Obsoleto							Fresa de Topo Recomendada
	Localizador	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	
NSE400R503S32 NSE400R634S32	SPTSE400R	CWSE300TR	LS10TS	TS32	TKY25T	TKY08F	WWX400 ()

SE300

Referência do Suporte Obsoleto						Fresa de Topo Recomendada
	Localizador	Cunha-T	Cunha-S	Parafuso de Fixação	Chave	
SE300	SPSE300R	CWNSE300TR	CWSE300SN	LS10T	TKY25T	WWX400 ()

SHP400

Referência do Suporte Obsoleto							Fresa de Topo Recomendada
	Localizador	Cunha-T	Parafuso de Fixação	Parafuso do Localizador	Chave (Parafuso de Fixação)	Chave (Localizador)	
SHP400	SPSHP400R	CWSE300TR	LS10T	TS32	TKY25T	TKY08F	WWX400 ()

SRE

Referência do Suporte Obsoleto					Fresa de Topo Recomendada
	Parafuso de Fixação	Grampo de Fixação	Anel Elástico	Chave	
SRER100SS16	TS253	—	—	TKY08F	—
SRER120SS16	TS3	—	—	TKY08F	
SRER140SS16	TS3	—	—	TKY08F	
SRER160SS16	TS35	—	—	TKY10F	
SRER180SS20	TS35	—	—	TKY10F	
SRER200SS20	SRS5	SRK1R	CR4	TKY20F	
SRER200SL20	SRS5	SRK1R	CR4	TKY20F	
SRER250SS25	SRS5	SRK1R	CR4	TKY20F	
SRER250SL25	SRS5	SRK1R	CR4	TKY20F	
SRER300SS32	SRS5	SRK1R	CR4	TKY20F	
SRER300SL32	SRS5	SRK1R	CR4	TKY20F	

STLG

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
STLGR22S32	CS300890T	TKY08F	KSMG ()
STLGR38S32	CS350990T	TKY10F	

VIPER

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
VIPER	CS400990T	TKY15D	SPX ()

ZR

Referência do Suporte Obsoleto	TS  CS 		Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
ZR202C/T	TS25	TKY08F	—
ZR252C/T	CS300890T	TKY08F	
ZR322C/T	CS300990T	TKY10F	
ZR402C/T	CS451190T	TKY20F	
ZR502C/T	CS451190T	TKY20F	

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

FRESAS DE TOPO ESFÉRICO

FBE2

Referência do Suporte Obsoleto			Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
FBE2200SM	CS300590T	TKY08R	SRF(ØL300)
FBE2250SM	CS350790T	TKY10R	
FBE2300SM	CS400990T	TKY15R	
FBE2200SF	CS300590T	TKY08R	
FBE2250SF	CS350790T	TKY10R	
FBE2300SF	CS400990T	TKY15R	

TBE1/TBE2

Referência do Suporte Obsoleto	 		 				Fresa de Topo Recomendada
	Parafuso de Fixação		Chave				
	R	Periférico	R		Periférico		
TBE1100SS	TS3	—	TKY08F	—	—	—	—
TBE1100SM	TS3	—	TKY08F	—	—	—	
TBE1100S	TS3	—	TKY08F	—	—	—	
TBE1150S	CS300790TS	—	—	TKY10R	—	—	SRM2(ØL308)
TBE1200S	CS400990T	—	—	TKY15R	—	—	
TBE1250S	CS400990T	—	—	TKY15R	—	—	
TBE1300S	CS501290T	—	—	TKY25R	—	—	
TBE2150S	TS254	—	TKY08F	—	—	—	
TBE2150SM	TS254	—	—	—	—	—	
TBE2160S	TS254	—	—	—	—	—	
TBE2160SM	TS254	—	—	—	—	—	
TBE2200S	CS350790T	—	—	TKY10R	—	—	
TBE2200SM	CS350790T	—	—	TKY10R	—	—	
TBE2250S	CS400990T	—	—	TKY15R	—	—	
TBE2250SM	CS400990T	—	—	TKY15R	—	—	
TBE2300S	CS501290T	—	—	TKY25R	—	—	
TBE2300SM	CS501290T	—	—	TKY25R	—	—	
TBE1150SU	CS300790TS	—	—	TKY10R	—	—	
TBE1200SU	CS400990T	—	—	TKY15R	—	—	
TBE1250SU	CS400990T	—	—	TKY15R	—	—	
TBE1300SU	CS501290T	—	—	TKY25R	—	—	
TBE2150SU	TS254	—	TKY08F	—	—	—	
TBE2160SU	TS254	—	TKY08F	—	—	—	
TBE2200SU	CS350790T	—	—	TKY10R	—	—	
TBE2250SU	CS400990T	—	—	TKY15R	—	—	
TBE2300SU	CS501290T	—	—	TKY25R	—	—	
TBE1200SL	CS400990T	TS3	—	TKY15R	TKY08F	—	
TBE1250SL	CS400990T	TS3	—	TKY15R	TKY08F	—	
TBE1300SL	CS501290T	TS4	—	TKY25R	—	TKY15R	
TBE2200SL	CS350790T	CS350790T	—	TKY10R	—	TKY10R	
TBE2250SL	CS400990T	CS400990T	—	TKY15R	—	TKY15R	
TBE2300SL	CS501290T	CS400990T	—	TKY25R	—	TKY15R	
TBE1400SL	HFF06015	HS5	—	HKY50R	—	HKY30R	

TRM2

Referência do Suporte Obsoleto	TSCS		FR		Fresa de Topo Recomendada
	Parafuso de Fixação		Chave		
	Interno, Externo	Periférico	Interno, Externo	Periférico	
TRM2200SM	CS300790TS	—	TKY10R	—	SRM2(ØL308)
TRM2250SM	CS400990T	—	TKY15R	—	
TRM2300SM	CS501290T	—	TKY25R	—	
TRM2200SL	CS300790TS	TS3	TKY10R	TKY08F	
TRM2250SL	CS400990T	TS3	TKY15R	TKY08F	
TRM2300SL	CS501290T	TS4	TKY25R	TKY15R	
TRM2200SF	CS300790TS	TS3	TKY10R	TKY08F	
TRM2250SF	CS400990T	TS3	TKY15R	TKY08F	
TRM2300SF	CS501290T	TS4	TKY25R	TKY15R	

TRM4

Referência do Suporte Obsoleto		 R  T	Fresa de Topo Recomendada
	Parafuso de Fixação	Chave	
TRM4400SL	CS451190T	TKY20R	SRM2-40/50 (ØL316)
TRM4500SL	CS501290T	TKY25T	
TRM4400SF	CS451190T	TKY20R	
TRM4500SF	CS501290T	TKY25T	

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

BROCAS INTERCAMBIÁVEIS

TASS (STANDARD)

Referência do Suporte Obsoleto			Broca Recomendada
	Parafuso de Fixação	Chave	
TASS1600S32	TS202	TKY06F	MVX (ØN160)
TASS1700S32	TS202	TKY06F	
TASS1800S32	TS202	TKY06F	
TASS1900S32	TS202	TKY06F	
TASS2000S32	TS25	TKY08F	
TASS2100S32	TS25	TKY08F	
TASS2200S32	TS25	TKY08F	
TASS2300S32	TS25	TKY08F	
TASS2400S32	TS25	TKY08F	
TASS2500S32	TS32	TKY08F	
TASS2600S32	TS32	TKY08F	
TASS2700S32	TS32	TKY08F	
TASS2800S32	TS32	TKY08F	
TASS2900S32	TS32	TKY08F	
TASS3000S32	TS43	TKY15F	
TASS3100S32	TS43	TKY15F	
TASS3200S32	TS43	TKY15F	
TASS3300S40	TS43	TKY15F	
TASS3400S40	TS43	TKY15F	
TASS3500S40	TS43	TKY15F	
TASS3600S40	TS43	TKY15F	

TASS (FLANGE)

Referência do Suporte Obsoleto			Broca Recomendada
	Parafuso de Fixação	Chave	
TASS1600C20	TS202	TKY06F	MVX (ØN160)
TASS1650C20	TS202	TKY06F	
TASS1700C20	TS202	TKY06F	
TASS1750C20	TS202	TKY06F	
TASS1800C20	TS202	TKY06F	
TASS1850C20	TS202	TKY06F	
TASS1900C20	TS202	TKY06F	
TASS1950C20	TS202	TKY06F	
TASS2000C20	TS25	TKY08F	
TASS2100C25	TS25	TKY08F	
TASS2200C25	TS25	TKY08F	
TASS2300C25	TS25	TKY08F	
TASS2400C25	TS25	TKY08F	
TASS2500C25	TS32	TKY08F	
TASS2600C25	TS32	TKY08F	
TASS2700C25	TS32	TKY08F	
TASS2800C25	TS32	TKY08F	
TASS2900C25	TS32	TKY08F	
TASS3000C25	TS43	TKY15F	
TASS3100C32	TS43	TKY15F	
TASS3200C32	TS43	TKY15F	
TASS3300C32	TS43	TKY15F	
TASS3400C32	TS43	TKY15F	
TASS3500C32	TS43	TKY15F	
TASS3600C32	TS43	TKY15F	
TASS3700C32	TS43	TKY15F	
TASS3800C32	TS43	TKY15F	
TASS3900C32	TS43	TKY15F	
TASS4000C32	TS5	TKY25F	
TASS4100C32	TS5	TKY25F	
TASS4200C40	TS5	TKY25F	
TASS4300C40	TS5	TKY25F	
TASS4400C40	TS5	TKY25F	
TASS4500C40	TS5	TKY25F	
TASS4600C40	TS5	TKY25F	
TASS4700C40	TS5	TKY25F	
TASS4800C40	TS5	TKY25F	
TASS4900C40	TS5	TKY25F	
TASS5000C40	TS32	TKY08F	

TAGS

Referência do Suporte Obsoleto			Broca Recomendada
	Parafuso de Fixação	Chave	
TAGS1600F25	TS2	TKY06F	MVX (ØN160)
TAGS1700F25	TS2	TKY06F	
TAGS1800F25	TS2	TKY06F	
TAGS1900F25	TS2	TKY06F	
TAGS2000F25	TS25	TKY08F	
TAGS2100F25	TS25	TKY08F	
TAGS2200F25	TS25	TKY08F	
TAGS2300F25	TS25	TKY08F	
TAGS2400F25	TS25	TKY08F	
TAGS2500F32	TS3	TKY08F	
TAGS2600F32	TS3	TKY08F	
TAGS2700F32	TS3	TKY08F	
TAGS2800F32	TS3	TKY08F	
TAGS2900F32	TS3	TKY08F	
TAGS3000F40	TS4	TKY15F	
TAGS3100F40	TS4	TKY15F	
TAGS3200F40	TS4	TKY15F	
TAGS3300F40	TS4	TKY15F	
TAGS3400F40	TS4	TKY15F	
TAGS3500F40	TS4	TKY15F	
TAGS3600F40	TS4	TKY15F	
TAGS3700F40	TS4	TKY15F	
TAGS3800F40	TS4	TKY15F	
TAGS3900F40	TS4	TKY15F	
TAGS4000F40	TS5	TKY25F	
TAGS4100F40	TS5	TKY25F	
TAGS4200F40	TS5	TKY25F	
TAGS4300F40	TS5	TKY25F	
TAGS4400F40	TS5	TKY25F	
TAGS4500F40	TS5	TKY25F	
TAGS4600F40	TS5	TKY25F	
TAGS4700F40	TS5	TKY25F	
TAGS4800F40	TS5	TKY25F	
TAGS4900F40	TS5	TKY25F	
TAGS5000F40	TS3	TKY08F	
TAGS5100F40	TS3	TKY08F	
TAGS5200F40	TS3	TKY08F	
TAGS5300F40	TS3	TKY08F	
TAGS5400F40	TS3	TKY08F	
TAGS5500F40	TS4	TKY15F	
TAGS5600F40	TS4	TKY15F	
TAGS5700F40	TS4	TKY15F	
TAGS5800F40	TS4	TKY15F	
TAGS5900F40	TS4	TKY15F	

TAGM

Referência do Suporte Obsoleto			Broca Recomendada
	Parafuso de Fixação	Chave	
TAGM1600F25	TS2	TKY06F	MVX (ØN160)
TAGM1700F25	TS2	TKY06F	
TAGM1800F25	TS2	TKY06F	
TAGM1900F25	TS2	TKY06F	
TAGM2000F25	TS25	TKY08F	
TAGM2100F25	TS25	TKY08F	
TAGM2200F25	TS25	TKY08F	
TAGM2300F25	TS25	TKY08F	
TAGM2400F25	TS25	TKY08F	
TAGM2500F32	TS3	TKY08F	
TAGM2600F32	TS3	TKY08F	
TAGM2700F32	TS3	TKY08F	
TAGM2800F32	TS3	TKY08F	
TAGM2900F32	TS3	TKY08F	
TAGM3000F40	TS4	TKY15F	
TAGM3100F40	TS4	TKY15F	
TAGM3200F40	TS4	TKY15F	
TAGM3300F40	TS4	TKY15F	
TAGM3400F40	TS4	TKY15F	
TAGM3500F40	TS4	TKY15F	
TAGM3600F40	TS4	TKY15F	
TAGM3700F40	TS4	TKY15F	
TAGM3800F40	TS4	TKY15F	
TAGM3900F40	TS4	TKY15F	
TAGM4000F40	TS5	TKY25F	
TAGM4100F40	TS5	TKY25F	
TAGM4200F40	TS5	TKY25F	
TAGM4300F40	TS5	TKY25F	
TAGM4400F40	TS5	TKY25F	
TAGM4500F40	TS5	TKY25F	
TAGM4600F40	TS5	TKY25F	
TAGM4700F40	TS5	TKY25F	
TAGM4800F40	TS5	TKY25F	
TAGM4900F40	TS5	TKY25F	
TAGM5000F40	TS3	TKY08F	
TAGM5100F40	TS3	TKY08F	
TAGM5200F40	TS3	TKY08F	
TAGM5300F40	TS3	TKY08F	
TAGM5400F40	TS3	TKY08F	
TAGM5500F40	TS4	TKY15F	
TAGM5600F40	TS4	TKY15F	
TAGM5700F40	TS4	TKY15F	
TAGM5800F40	TS4	TKY15F	
TAGM5900F40	TS4	TKY15F	

PEÇAS DE REPOSIÇÃO PARA FERRAMENTAS OBSOLETAS

TAB

Referência do Suporte Obsoleto				Broca Recomendada
	Parafuso de Fixação	Plug	Chave	
TAB1700S32	TS3	PT1/4	TKY08D	MVX (ØN160)
TAB1800S32	TS3	PT1/4	TKY08D	
TAB1900S32	TS3	PT1/4	TKY08D	
TAB2000S32	TS32	PT1/4	TKY08D	
TAB2100S32	TS32	PT1/4	TKY08D	
TAB2200S32	TS32	PT1/4	TKY08D	
TAB2300S32	TS32	PT1/4	TKY08D	
TAB2400S32	TS32	PT1/4	TKY08D	
TAB2500S32	TS32	PT1/4	TKY08D	
TAB2600S32	TS4	PT1/4	TKY15D	
TAB2700S32	TS4	PT1/4	TKY15D	
TAB2800S32	TS4	PT1/4	TKY15D	
TAB2900S32	TS4	PT1/4	TKY15D	
TAB3000S32	TS4	PT1/4	TKY15D	
TAB3100S32	TS4	PT1/4	TKY15D	
TAB3200S32	TS4	PT1/4	TKY15D	
TAB3300S40	TS5	PT1/4	TKY25D	
TAB3400S40	TS5	PT1/4	TKY25D	
TAB3500S40	TS5	PT1/4	TKY25D	
TAB3600S40	TS5	PT1/4	TKY25D	
TAB3700S40	TS5	PT1/4	TKY25D	
TAB3800S40	TS5	PT1/4	TKY25D	
TAB3900S40	TS5	PT1/4	TKY25D	
TAB4000S40	TS5	PT1/4	TKY25D	
TAB4100S40	TS5	PT1/4	TKY25D	
TAB4200S40	TS5	PT1/4	TKY25D	
TAB4300S40	TS5	PT1/4	TKY25D	
TAB4400S40	TS5	PT1/4	TKY25D	
TAB4500S40	TS5	PT1/4	TKY25D	

NPX

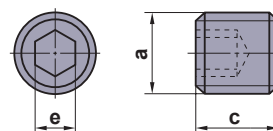
Referência do Suporte Obsoleto			Broca Recomendada
	Parafuso de Fixação	Chave	
NPXM2000S25	TS3	TKY08F	TAW (ØN151)
NPXM2100S25	TS3	TKY08F	
NPXM2200S25	TS3	TKY08F	
NPXM2300S25	TS35	TKY10F	
NPXM2400S32	TS35	TKY10F	
NPXM2500S32	TS35	TKY10F	
NPXM2600S32	TS35	TKY10F	
NPXM2700S32	TS4	TKY15F	
NPXM2800S32	TS4	TKY15F	
NPXM2900S32	TS4	TKY15F	
NPXM3000S32	TS4	TKY15F	

TAW (BROCA INTERCAMBIÁVEL WSTAR)

Referência do Suporte Obsoleto					Broca Recomendada
	Parafuso de Fixação	Chave	Limpador	Lubrificante Antitravante	
TAWSNH1400S16	WS254012T	TKY08W	WPT4405	MK1KS	STAW(☉N144)
TAWMNH1400S16	WS254012T	TKY08W	WPT4405	MK1KS	
TAWLNH1400S16	WS254012T	TKY08W	WPT4405	MK1KS	
TAWSNH1500S20	WS254013T	TKY08W	WPT4405	MK1KS	
TAWMNH1500S20	WS254013T	TKY08W	WPT4405	MK1KS	
TAWLNH1500S20	WS254013T	TKY08W	WPT4405	MK1KS	
TAWSN1600S20	WS254014T	TKY08W	WPT4405	MK1KS	
TAWMN1600S20	WS254014T	TKY08W	WPT4405	MK1KS	
TAWLN1600S20	WS254014T	TKY08W	WPT4405	MK1KS	
TAWSN1700S20	WS254015T	TKY08W	WPT4405	MK1KS	
TAWMN1700S20	WS254015T	TKY08W	WPT4405	MK1KS	
TAWLN1700S20	WS254015T	TKY08W	WPT4405	MK1KS	
TAWSN1800S20	WS254016T	TKY08W	WPT4405	MK1KS	
TAWMN1800S20	WS254016T	TKY08W	WPT4405	MK1KS	
TAWLN1800S20	WS254016T	TKY08W	WPT4405	MK1KS	

COMPONENTES SEM ESTOQUE

Itens compatíveis com produtos disponíveis no mercado (norma JIS).
Consulte as dimensões abaixo para a compra do item desejado.



PARAFUSO DE FIXAÇÃO

Referência para pedido do suporte	Página	Referência para pedido do componente	Dimensões de referência (mm)			Torque (N·m)
			a	c	e	
H63TH-EV2525R/L-112	H019	HSS12025	M12×1.75	25.0	6.0	47.0
H100TH-EV3232R/L-180	H019	HSS14035	M14×2.0	35.0	6.0	53.0
H63TH-EN2525R/L-115	H020	HSS12030	M12×1.75	30.0	6.0	47.0
H100TH-EN3232R/L-130	H020	HSS14030	M14×2.0	30.0	6.0	53.0
H63TH-EV2020R/L-105-3	H021	HSS12030	M12×1.75	30.0	6.0	47.0
H63TH-B08-65	H021	HSS08010	M8×1.25	10.0	4.0	14.0
H63TH-B10-70	H021	HSS08012	M8×1.25	12.0	4.0	14.0
H63TH-B12-70	H021	HSS08012	M8×1.25	12.0	4.0	14.0
H63TH-B16-75	H021	HSS10016	M10×1.5	16.0	5.0	27.0
H63TH-B20-75	H021	HSS10016	M10×1.5	16.0	5.0	27.0
H63TH-B25-83	H021	HSS12016	M12×1.75	16.0	6.0	47.0
H63TH-B32-87	H021	HSS12016	M12×1.75	16.0	6.0	47.0
H63TH-B40-97	H021	HSS16012	M16×2.0	12.0	8.0	118.0
H100TH-B25-120	H022	HSS12016	M12×1.75	16.0	6.0	47.0
H100TH-B32-135	H022	HSS12018	M12×1.75	18.0	6.0	47.0
H100TH-B40-150	H022	HSS16020	M16×2.0	20.0	8.0	118.0
H100TH-B50-180	H022	HSS16020	M16×2.0	20.0	8.0	118.0
SL3208-90	H022	HSS06008	M6×1.0	8.0	3.0	5.9
SL3210-90	H022	HSS08008	M8×1.25	8.0	4.0	14.0
SL3212-90	H022	HSS08008	M8×1.25	8.0	4.0	14.0
SL3216-90	H022	HSS08006	M8×1.25	6.0	4.0	14.0
SL3220-90	H022	HSS08005	M8×1.25	5.0	4.0	14.0

PLUG

Referência para pedido do suporte	Página	Referência para pedido do componente	Dimensões de referência (mm)			Torque (N·m)
			a	c	e	
H63TH-EV2525R/L-112	H019	HGM-PT1/8	1/8-28	7.0	5.0	—
H100TH-EV3232R/L-180	H019	HSS06006	M6×1.0	6.0	3.0	—
H63TH-EN2525R/L-115	H020	HSS06006	M6×1.0	6.0	3.0	—
H100TH-EN3232R/L-130	H020	HSS06006	M6×1.0	6.0	3.0	—
H63TH-EV2020R/L-105-3	H021	HSS06006	M6×1.0	6.0	3.0	—

PLUG DO BOCAL

Referência para pedido do suporte	Página	Referência para pedido do componente	Dimensões de referência (mm)			Torque (N·m)
			a	c	e	
H63TH-EV2020R/L-105-3	H021	HSS05012	M5×0.8	12.0	2.5	—