



IMPREGNÉES IMPREGNATED

Matrices ELITE Minières et géotechniques Mining ELITE Cutting Matrix

La gamme ELITE DATC a un éventail de dix nuances afin de couvrir toute la plage de dureté des roches.



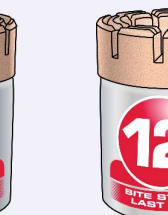
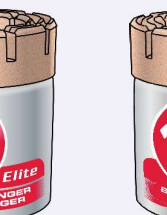


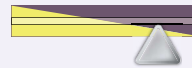



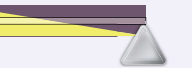
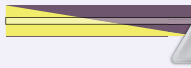
DATC's ELITE core bits are available in ten different cutting matrix grades to cover the full range of rock hardnesses.

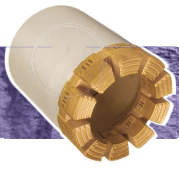
E020	E030	E040	E060	E070	E080	E090
						
						
La matrice 2 s'utilise dans des formations moyennement dures et non-abrasives (ex. sel, glace). No. 2 matrix is used for medium, nonabrasive formations (e.g. salt, ice).	La matrice 3 est idéale pour toutes les formations moyennement dures (ex. calcaire sablonneux). No. 3 matrix is ideal for all medium-hard formations (e.g. sandy limestone).	La matrice 4 s'utilise dans des formations moyennes à dures (ex. limons, serpentine). No. 4 matrix is ideal for medium to hard formations (siltstone, serpentine).	La matrice 6 s'utilise dans des formations dures, abrasives ou pas (ex. schistes durs, dolomite). No. 6 matrix is used for abrasive and nonabrasive hard rock (hard schist, dolomite).	La matrice 7 s'utilise dans des formations dures (ex. andésite). No. 7 matrix is used for hard formations (e.g. andesite).	La matrice 8 s'utilise dans des formations dures à très dures (ex. hématite). No. 8 matrix is ideal for hard to very hard formations (e.g. haematite).	La matrice 9 s'utilise dans des formations dures à très dures (ex. schiste métamorphique). No. 9 matrix is ideal for hard to very hard formations (e.g. metamorphic schist).

RÉSISTANT À L'USURE
WEAR RESISTANT



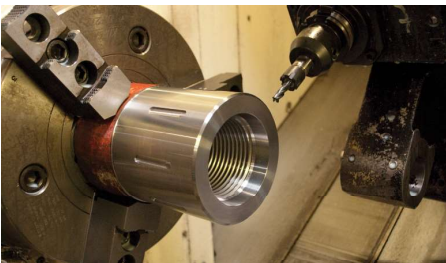
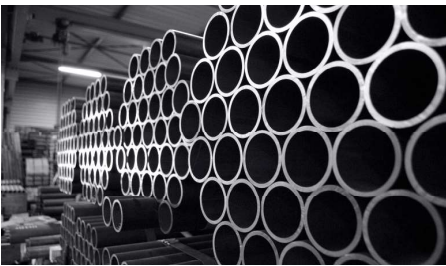
COUPE AUTO-AFFUTANTE
SELF-SHARPENING

E100	E110	E120	E130	E140	E150
					
					
La matrice 10 s'utilise dans des formations très dures (ex. granite). No. 10 matrix is ideal for very hard formations (e.g. granite).	La matrice 11 s'utilise dans des formations très dures à extrêmement dures (ex. gabbro). No. 11 matrix is ideal for very hard and extremely hard formations (e.g. gabbro).	Les matrices 12-13-14-15 s'utilisent dans des formations extrêmement dures (ex: banc d'hématite). Le choix de la matrice doit être fait en fonction du retour d'expérience afin d'optimiser la performance (avancement et durée de vie) N°12 to 15 matrix are used for extremely hard formation (i.g. banded haematite). Matrix's choice must be done according to experience feedback in order to optimize performance (feeding and lifetime).			



OUTILS FORANTS DRILLING BITS

IMPREG MINIÈRES IMPREG MINING





IMPREG MINIÈRES IMPREG MINING

COURONNES MINIÈRES ELITE ELITE MINING CORE BITS

DATC a développé, depuis 2013, une gamme innovante de couronnes minières, appelées ELITE. Nous avons visé par cette gamme l'excellence pour offrir un produit leader du marché par sa performance.

Comme son nom le désigne cette gamme ELITE est dédiée aux foreurs les plus exigeants du monde minier recherchant :

- ▶ Sécurité
- ▶ Fiabilité et Longévité
- ▶ Rendement et Productivité

Nos couronnes ELITE se caractérisent par leur « mordant » et des vitesses d'avancement élevées en préservant la durée de vie de la couronne grâce aux 10 grades disponibles pour répondre à toutes les applications de carottage quelque soit le terrain rencontré.

Avec une couronne ELITE de DATC vous obtiendrez le meilleur taux coût au mètre foré du marché.

Since 2013, DATC has developed a ground-breaking range of mining bits: the ELITE range. The aim is to provide excellence in a product which will lead the market thanks to its performance.

As its name suggests, the ELITE range is aimed at the most demanding drillers in the world, who require:

- ▶ Safety
- ▶ Reliability and Durability
- ▶ Efficiency and Productivity

Our ELITE core bits have a characteristic 'bite'. Thanks to the choice of 10 available grades, ELITE bits give high penetration rates while preserving the long life of the bit, making them suitable for all core-drilling applications, whatever the ground type.

With DATC's ELITE core bits you will get the best cost per meter drilled on the market.





IMPREG MINIÈRES IMPREG MINING

Passages d'Eau des Couronnes Minières ELITE Water Ways on ELITE Mining Bits

Pour sa gamme ELITE de couronnes minières, DATC propose un design de passages d'eau savamment étudié afin de répondre aux exigences les plus diverses en termes d'évacuation des cuttings. D'une manière générale, les passages d'eau sont évasés vers l'extérieur de la couronne permettant ainsi un meilleur flux des débris de forage par effet centrifuge.

Deux tailles et nombres de passages d'eau sont proposés en standard pour chaque taille de couronne en suivant le tableau ci-dessous.

STANDARD OU TURBO

En option, DATC propose un design de passages d'eau TURBO où une partie de la matrice a été retirée sur le coté extérieur de la couronne afin de diminuer la surface de contact avec le terrain et ainsi gagner en vitesse de pénétration. Cette option est proposée en standard dans la version passages d'eau larges pour chaque taille de couronne.

STANDARD OR TURBO

DATC's Elite bits also feature an optional design variant: the TURBO water way. Part of the cutting matrix is removed from the outside edge of the bit, reducing the area in contact with the ground and increasing penetration speed. This option is proposed as standard for the wide water way version of each size of bit.

OPTION FD

La version « FD » (face discharge, ou décharge faciale) est proposée pour toutes tailles de couronnes en standard ou en TURBO dans une configuration à nombre de passages d'eau larges où la largeur est augmentée par rapport au standard (0.232" au lieu de 0.187"). Cette version a l'avantage d'améliorer les forages dans les terrains fracturés et permet aussi de préserver au mieux la carotte contre tout lessivage possible surtout dans les formations tendres où l'échantillon tendrait à s'éroder au contact continu avec le fluide de forage.


DATC's ELITE range of mining bits features a range of water way options, designed to meet the widest range of flushing needs. Water ways are flared towards the bit's outer edge to allow cuttings to flow outward by centrifugal force.

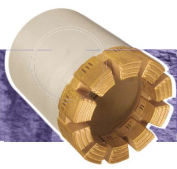
Two combinations of number and width of water ways are available as standard for each size of bit, as shown in the table below.



FD OPTION

The 'FD' option (face discharge) is available for all sizes of core bit, in both standard and turbo styles, using the smaller number of water ways and a specially increased spacing (0.232" rather than 0.187"). FD improves drilling in fractured terrain and also gives the best protection of the core, especially in soft formations where constant contact with the drilling fluid tends to erode the sample.

NOMBRE DE PASSAGES D'EAU NUMBER OF WATER WAYS											Standard ou / or Turbo
Type de Passages d'eau Type of Waterway	Largeur A Width A	AWL	BWL	NWL NWL3	NWLL	HWL HWL3	HWLL	PWL PWL3	PWLL		
LARGE SANS FD WIDE WITHOUT FD	 0.187" (4.75 mm)	4	6	8	/	10	/	12	/	✓	✓
ÉTROIT SANS FD NARROW WITHOUT FD	 0.125" (3.175 mm)	6	8	10	/	12	/	14	/	✓	
FD : DÉCHARGE FACIALE FD: FACE DISCHARGE	 0.232" (5.9 mm)	4	6	8		10		12		✓	✓



OUTILS FORANTS DRILLING BITS

IMPREG MINIÈRES IMPREG MINING

Grades de Matrice Matrix Grades

Voir détails, P.19 For details, see P.19



RÉSISTANT À L'USURE
WEAR RESISTANT

COUPE AUTO-AFFUTANTE
SELF-SHARPENING

Profils Profiles

Voir détails, P.15 For details, see p.P.15



VV *
PROFIL À DENT
VV PROFILE



T *
PROFIL CÔNIQUE
TAPERED PROFILE



RF
PROFIL ARRONDI
ROUNDED PROFILE



F
PROFIL PLAT
FLAT PROFILE

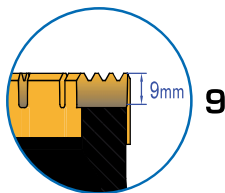
* VV-T : Standard
F – RF : Option

Hauteurs Matrices des Couronnes Minières ELITE

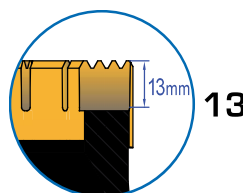
DATC propose pour sa gamme ELITE de couronne minières, trois hauteurs de matrices coupantes différentes afin de répondre au plus juste à votre besoin en termes de longévité et d'endurance en ciblant le ratio coût / besoin.

ELITE Mining Bit Impregnation Heights

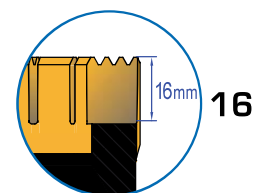
DATC's ELITE range of mining bits are available in three different cutting matrix heights. This allows you to balance costs against your needs for longevity and endurance.



Conseillé pour des applications géotechniques
Recommended for geotechnical applications



Conseillé pour des applications minières
Recommended for mining applications



Conseillé pour des applications minières lourdes
Recommended for heavy duty mining applications

Carottiers Core barrels

		OD	ID	
			WL	WL3/WLL
taille de carottier core barrel size	AWL	47.50	27.09	
	BWL	59.44	36.52	33.65
	NWL	75.18	47.74	45.21
	HWL	95.50	63.62	61.23
	PWL	121.80	85.09	83.18

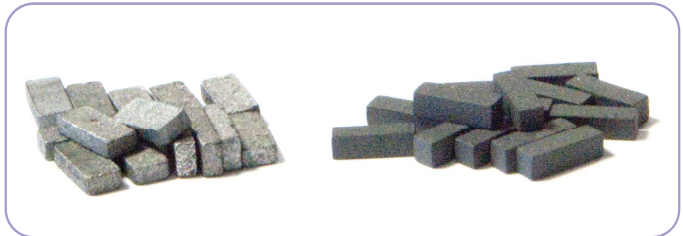


IMPREGNÉES IMPREGNATED

Protection des diamètres intérieurs et extérieurs des couronnes Protection of inner and outer diameter of core bits

Les couronnes sont protégées tout au long du forage par des plaquettes en diamant synthétique et en carbure de tungstène, disposées précisément dans la matrice de support pour renforcer les diamètres intérieur et extérieur.

Core bits are protected throughout their drilling life by synthetic diamond and tungsten carbide pins, positioned precisely within the impregnated support matrix, thus reinforcing the inner and outer diameters.



PLAQUETTES TC TC PINS

Les plaquettes TC en carbure de tungstène sont polyvalentes et répondent à un large éventail de type de terrain à dureté et abrasion diverses.

Tungsten carbide pins can be used in a wide range of ground types, ground hardness and degrees of abrasivity.

PLAQUETTES TSP TSP PINS

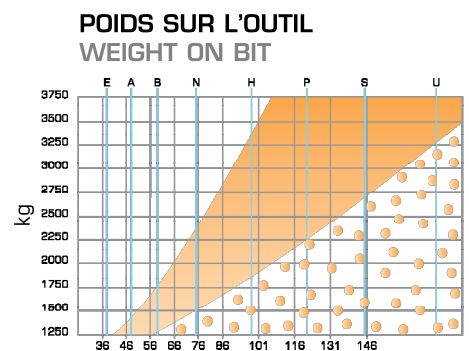
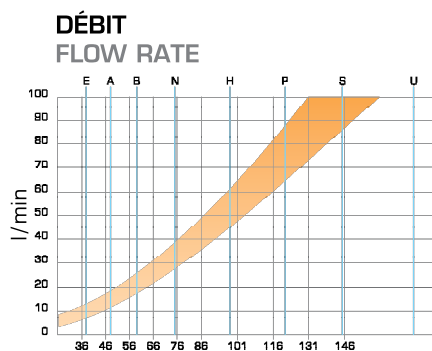
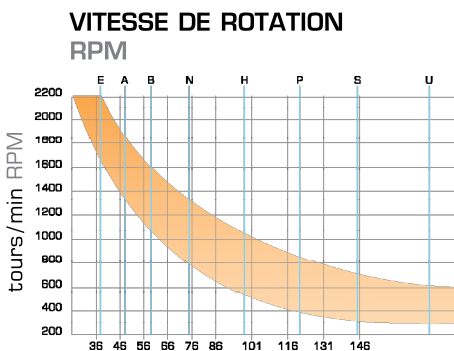
Les plaquettes en diamant polycristallin thermiquement stable sont une alternative aux pierres serties. Cette substitution élimine le possible problème de déchaussement des pierres serties. Ces plaquettes révolutionnaires permettent aussi de répondre en termes de performances dans les chantiers de forage pour l'exploitation de diamant naturel.

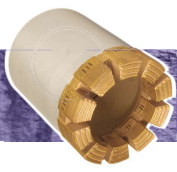
Thermally stable polycrystalline diamond pins are an alternative to diamond inserts, avoiding the potential loss of set stones. These revolutionary pin inserts can be used for mining natural diamond.

La combinaison et l'alternance de ces deux types de plaquettes confèrent aux couronnes imprégnées une très bonne durée de vie dans un large éventail de configurations de terrains explorés.

The combination and alternate positioning of these two types of pin gives our impregnated core bits a very long life in a wide range of ground configurations.

Paramètres de Forage Coring Parameters





IMPREG MINIÈRES
IMPREG MINING

Références Usuelles des Couronnes Minières
Common Mining Core Bit References

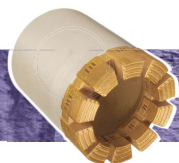
WL				
B	BWL STANDARD	QOB13V040S06-187	BWL STANDARD FD	QOB13V040S06F232
		QOB13V060S06-187		QOB13V060S06F232
		QOB13V070S08-125		QOB13V070S06F232
		QOB13V080S08-125		QOB13V080S06F232
		QOB13V090S08-125		QOB13V090S06F232
		QOB13V100S08-125		QOB13V100S06F232
		QOB13V110S08-125		QOB13V110S06F232
		QOB13V120S08-125		QOB13V120S06F232
		QOB13V130S08-125		QOB13V130S06F232
		QOB13V140S08-125		QOB13V140S06F232
	QOB13V150S08-125	QOB13V150S06F232		
	BWL TURBO	QOB13V070T06-187	BWL TURBO FD	QOB13V070T06F232
		QOB13V080T06-187		QOB13V080T06F232
		QOB13V090T06-187		QOB13V090T06F232
		QOB13V100T06-187		QOB13V100T06F232
		QOB13V110T06-187		QOB13V110T06F232
		QOB13V120T06-187		QOB13V120T06F232
		QOB13V130T06-187		QOB13V130T06F232
		QOB13V140T06-187		QOB13V140T06F232
		QOB13V150T06-187		QOB13V150T06F232
N		NWL STANDARD		QON13V040S08-187
	QON13V060S08-187		QON13V060S08F232	
	QON13V070S10-125		QON13V070S08F232	
	QON13V080S10-125		QON13V080S08F232	
	QON13V090S10-125		QON13V090S08F232	
	QON13V100S10-125		QON13V100S08F232	
	QON13V110S10-125		QON13V110S08F232	
	QON13V120S10-125		QON13V120S08F232	
	QON13V130S10-125		QON13V130S08F232	
	QON13V140S10-125		QON13V140S08F232	
	QON13V150S10-125	QON13V150S08F232		
	NWL TURBO	QON13V070T08-187	NWL TURBO FD	QON13V070T08F232
		QON13V080T08-187		QON13V080T08F232
		QON13V090T08-187		QON13V090T08F232
		QON13V100T08-187		QON13V100T08F232
		QON13V110T08-187		QON13V110T08F232
		QON13V120T08-187		QON13V120T08F232
		QON13V130T08-187		QON13V130T08F232
		QON13V140T08-187		QON13V140T08F232
		QON13V150T08-187		QON13V150T08F232



IMPREG MINIÈRES IMPREG MINING

STANDARD	Voir explication de la nomenclature P.22 See explanation of nomenclature, P.22
STANDARD FD	
TURBO	
TURBO FD	

WL				
H	HWL STANDARD	QOH13V040S10-187	HWL STANDARD FD	QOH13V040S10F232
		QOH13V060S10-187		QOH13V060S10F232
		QOH13V070S12-125		QOH13V070S10F232
		QOH13V080S12-125		QOH13V080S10F232
		QOH13V090S12-125		QOH13V090S10F232
		QOH13V100S12-125		QOH13V100S10F232
		QOH13V110S12-125		QOH13V110S10F232
		QOH13V120S12-125		QOH13V120S10F232
		QOH13V130S12-125		QOH13V130S10F232
		QOH13V140S12-125		QOH13V140S10F232
	QOH13V150S12-125	QOH13V150S10F232		
	HWL TURBO	QOH13V070T10-187	HWL TURBO FD	QOH13V070T10F232
		QOH13V080T10-187		QOH13V080T10F232
		QOH13V090T10-187		QOH13V090T10F232
		QOH13V100T10-187		QOH13V100T10F232
		QOH13V110T10-187		QOH13V110T10F232
		QOH13V120T10-187		QOH13V120T10F232
		QOH13V130T10-187		QOH13V130T10F232
		QOH13V140T10-187		QOH13V140T10F232
		QOH13V150T10-187		QOH13V150T10F232
P		PWL STANDARD		QOP13V040S12-187
	QOP13V060S12-187		QOP13V060S12F232	
	QOP13V070S14-125		QOP13V070S12F232	
	QOP13V080S14-125		QOP13V080S12F232	
	QOP13V090S14-125		QOP13V090S12F232	
	QOP13V100S14-125		QOP13V100S12F232	
	QOP13V110S14-125		QOP13V110S12F232	
	QOP13V120S14-125		QOP13V120S12F232	
	QOP13V130S14-125		QOP13V130S12F232	
	QOP13V140S14-125		QOP13V140S12F232	
	QOP13V150S14-125	QOP13V150S12F232		
	PWL TURBO	QOP13V070T12-187	PWL TURBO FD	QOP13V070T12F232
		QOP13V080T12-187		QOP13V080T12F232
		QOP13V090T12-187		QOP13V090T12F232
		QOP13V100T12-187		QOP13V100T12F232
		QOP13V110T12-187		QOP13V110T12F232
		QOP13V120T12-187		QOP13V120T12F232
		QOP13V130T12-187		QOP13V130T12F232
		QOP13V140T12-187		QOP13V140T12F232
		QOP13V150T12-187		QOP13V150T12F232



IMPREG MINIÈRES
IMPREG MINING

Références Usuelles des Couronnes Minières
Common Mining Core Bit References

WL3				WL3 À LÈVRES : WLL (UNIQUEMENT EN FD) WL3 LIPPED: WLL (FD ONLY)		
B	BWL3 STANDARD	Q3B13V040S06-187	BWL3 STANDARD FD	Q3B13V040S06F232	BWL3 À LÈVRES / LIPPED STANDARD FD	QLB13V040S06F232
		Q3B13V060S06-187		Q3B13V060S06F232		QLB13V060S06F232
		Q3B13V070S08-125		Q3B13V070S06F232		QLB13V070S06F232
		Q3B13V080S08-125		Q3B13V080S06F232		QLB13V080S06F232
		Q3B13V090S08-125		Q3B13V090S06F232		QLB13V090S06F232
		Q3B13V100S08-125		Q3B13V100S06F232		QLB13V100S06F232
		Q3B13V110S08-125		Q3B13V110S06F232		QLB13V110S06F232
		Q3B13V120S08-125		Q3B13V120S06F232		QLB13V120S06F232
		Q3B13V130S08-125		Q3B13V130S06F232		QLB13V130S06F232
		Q3B13V140S08-125		Q3B13V140S06F232		QLB13V140S06F232
		Q3B13V150S08-125		Q3B13V150S06F232		QLB13V150S06F232
		BWL3 TURBO		Q3B13V070T06-187		BWL3 TURBO FD
	Q3B13V080T06-187		Q3B13V080T06F232	QLB13V080T06F232		
	Q3B13V090T06-187		Q3B13V090T06F232	QLB13V090T06F232		
	Q3B13V100T06-187		Q3B13V100T06F232	QLB13V100T06F232		
	Q3B13V110T06-187		Q3B13V110T06F232	QLB13V110T06F232		
	Q3B13V120T06-187		Q3B13V120T06F232	QLB13V120T06F232		
	N	NWL3 STANDARD	Q3N13V040S08-187	NWL3 STANDARD FD	Q3N13V040S08F232	NWL3 À LÈVRES / LIPPED STANDARD FD
Q3N13V060S08-187			Q3N13V060S08F232		QLN13V060S08F232	
Q3N13V070S10-125			Q3N13V070S08F232		QLN13V070S08F232	
Q3N13V080S10-125			Q3N13V080S08F232		QLN13V080S08F232	
Q3N13V090S10-125			Q3N13V090S08F232		QLN13V090S08F232	
Q3N13V100S10-125			Q3N13V100S08F232		QLN13V100S08F232	
Q3N13V110S10-125			Q3N13V110S08F232		QLN13V110S08F232	
Q3N13V120S10-125			Q3N13V120S08F232		QLN13V120S08F232	
Q3N13V130S10-125			Q3N13V130S08F232		QLN13V130S08F232	
Q3N13V140S10-125			Q3N13V140S08F232		QLN13V140S08F232	
Q3N13V150S10-125			Q3N13V150S08F232		QLN13V150S08F232	
NWL3 TURBO			Q3N13V070T08-187		NWL3 TURBO FD	
		Q3N13V080T08-187	Q3N13V080T08F232	QLN13V080T08F232		
		Q3N13V090T08-187	Q3N13V090T08F232	QLN13V090T08F232		
		Q3N13V100T08-187	Q3N13V100T08F232	QLN13V100T08F232		
		Q3N13V110T08-187	Q3N13V110T08F232	QLN13V110T08F232		
		Q3N13V120T08-187	Q3N13V120T08F232	QLN13V120T08F232		
Q3N13V130T08-187		Q3N13V130T08F232	QLN13V130T08F232			
Q3N13V140T08-187	Q3N13V140T08F232	QLN13V140T08F232				
Q3N13V150T08-187	Q3N13V150T08F232	QLN13V150T08F232				



IMPREG MINIÈRES IMPREG MINING

STANDARD	Voir explication de la nomenclature P.22 See explanation of nomenclature, P.22
STANDARD FD	
TURBO	
TURBO FD	

WL3				WL3 À LÈVRES : WLL (UNIQUEMENT EN FD) WL3 LIPPED: WLL (FD ONLY)		
H	HWL3 STANDARD	Q3H13V040S10-187	HWL3 STANDARD FD	Q3H13V040S10F232	HWL3 À LÈVRES / LIPPED STANDARD FD	QLH13V040S10F232
		Q3H13V060S10-187		Q3H13V060S10F232		QLH13V060S10F232
		Q3H13V070S12-125		Q3H13V070S10F232		QLH13V070S10F232
		Q3H13V080S12-125		Q3H13V080S10F232		QLH13V080S10F232
		Q3H13V090S12-125		Q3H13V090S10F232		QLH13V090S10F232
		Q3H13V100S12-125		Q3H13V100S10F232		QLH13V100S10F232
		Q3H13V110S12-125		Q3H13V110S10F232		QLH13V110S10F232
		Q3H13V120S12-125		Q3H13V120S10F232		QLH13V120S10F232
		Q3H13V130S12-125		Q3H13V130S10F232		QLH13V130S10F232
		Q3H13V140S12-125		Q3H13V140S10F232		QLH13V140S10F232
	Q3H13V150S12-125	Q3H13V150S10F232	QLH13V150S10F232			
	HWL3 TURBO	Q3H13V070T10-187	HWL3 TURBO FD	Q3H13V070T10F232	HWL3 À LÈVRES / LIPPED TURBO FD	QLH13V070T10F232
		Q3H13V080T10-187		Q3H13V080T10F232		QLH13V080T10F232
		Q3H13V090T10-187		Q3H13V090T10F232		QLH13V090T10F232
		Q3H13V100T10-187		Q3H13V100T10F232		QLH13V100T10F232
		Q3H13V110T10-187		Q3H13V110T10F232		QLH13V110T10F232
		Q3H13V120T10-187		Q3H13V120T10F232		QLH13V120T10F232
		Q3H13V130T10-187		Q3H13V130T10F232		QLH13V130T10F232
		Q3H13V140T10-187		Q3H13V140T10F232		QLH13V140T10F232
		Q3H13V150T10-187		Q3H13V150T10F232		QLH13V150T10F232
P		PWL3 STANDARD		Q3P13V040S12-187		PWL3 STANDARD FD
	Q3P13V060S12-187		Q3P13V060S12F232	QLP13V060S12F232		
	Q3P13V070S14-125		Q3P13V070S12F232	QLP13V070S12F232		
	Q3P13V080S14-125		Q3P13V080S12F232	QLP13V080S12F232		
	Q3P13V090S14-125		Q3P13V090S12F232	QLP13V090S12F232		
	Q3P13V100S14-125		Q3P13V100S12F232	QLP13V100S12F232		
	Q3P13V110S14-125		Q3P13V110S12F232	QLP13V110S12F232		
	Q3P13V120S14-125		Q3P13V120S12F232	QLP13V120S12F232		
	Q3P13V130S14-125		Q3P13V130S12F232	QLP13V130S12F232		
	Q3P13V140S14-125		Q3P13V140S12F232	QLP13V140S12F232		
	Q3P13V150S14-125	Q3P13V150S12F232	QLP13V150S12F232			
	PWL3 TURBO	Q3P13V070T12-187	PWL3 TURBO FD	Q3P13V070T12F232	PWL3 À LÈVRES / LIPPED TURBO FD	QLP13V070T12F232
		Q3P13V080T12-187		Q3P13V080T12F232		QLP13V080T12F232
		Q3P13V090T12-187		Q3P13V090T12F232		QLP13V090T12F232
		Q3P13V100T12-187		Q3P13V100T12F232		QLP13V100T12F232
		Q3P13V110T12-187		Q3P13V110T12F232		QLP13V110T12F232
		Q3P13V120T12-187		Q3P13V120T12F232		QLP13V120T12F232
		Q3P13V130T12-187		Q3P13V130T12F232		QLP13V130T12F232
		Q3P13V140T12-187		Q3P13V140T12F232		QLP13V140T12F232
		Q3P13V150T12-187		Q3P13V150T12F232		QLP13V150T12F232