



From 0,5t to 10t



RF up to 400m



BLE up to 30m



0.1% accuracy



Powered 3 x AA



Water resistant



## DESCRIPTION

The dynafor™ Expert is designed and manufactured by Tractel®. The dynafor™ Expert is a wireless digital dynamometer, used in high precision applications. With its unique design, it allows to reach extreme precision.

Based on the principle of strain gauge extension measurement, the sensor generates an electrical signal which is processed and analyzed by a built-in microprocessor, which transmits the information to a wireless accessory.

Equipped with radio 2.4 GHz (RF) and Bluetooth (BLE) chipsets available all time, the dynafor™ Expert provides a wireless range of :

- 400 m to Tractel® dynafor™ HHD, large displays AL128 and software accessories
- 30 m to any smartphone equipped with our free dynafor™ app on iOS or Android

Compatible with standard bow and clevis shackles, the dynafor™ Expert ensures a perfect implementation in your applications.

## APPLICATIONS

- Overhead Weighing
- Force measurement testing
- Towing applications
- Safety and lifting applications
- Load balancing
- Research & Development Projects
- Load Monitoring on lifting equipments

## ACCESSORIES

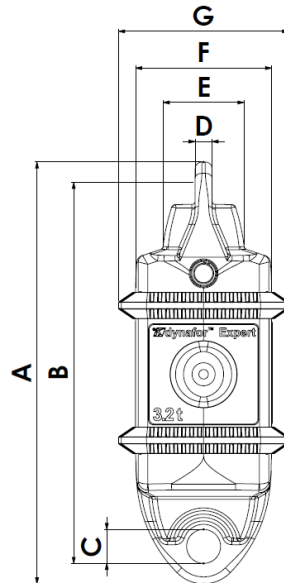
The dynafor™ Expert offers a large array of wireless accessories and softwares:

- dynafor™ HHD for a remote display with extended functionalities
- Wireless dynafor™ AL128 for a high visibility display
- Loader Software to unload data saved into the HHD
- Monitoring Software, in use with HHD for real-time monitoring
- dynafor™ application available on any Android and iOS device
- dynafor™ DMU for threshold management
- Standard bow and clevis shackles



## APPLICABLE STANDARDS

Machinery	:	2006/42/CE			
Radio	:	RED 2014/53/UE	/ EN300440 V2.1.1	/ EN300328 V2.2.2	/ ETSI 203367 V1.1.0
Health	:	EN62479 (2010)			
EMC	:	EN61326-1 (2013)	/ EN301 489- 1 & 17 Part 1 V2.2.3 and Part 17 V3.1.1		
Electrical safety	:	IEC/EN61010-1 (Amd 1 Ed 3)			
UL & CSA Approval	:	FCC part 15	/ RSS-GEN & RSS-210	/ CES-003	

**TECHNICAL CHARACTERISTICS**


MODEL	Expert 0,5t	Expert 1t	Expert 2t	Expert 3,2t	Expert 5t	Expert 6,3t	Expert 10t	
Purchasing code	293299	293309	293319	293329	293339	293349	293359	
Maximum capacity WLL	t 0,5	1	2	3,2	5	6,3	10	
Test load	t 0,75	1,5	3	4,8	7,5	9,6	15	
Charge minimum	10% de CMU							
Safety coefficient	Minimum 4							
Precision	0,1% at 21 °C full scale (IP 67 = 0,2%)							
	kg 0,5	1	2	3,2	5	6,3	10	
Resolution	kg 0,1	0,2	0,5	0,5	1	1	2	
Maximum display	110% of WLL							
Conversion factor	1 kg = 0,98083 daN = 2,20462 lbs							
Autonomy	From 300 to 1000h depending on usage							
Batteries	3 x AA							
Weight	Kg 2,3				3,35		6,45	
RF Technology	2,4 GHz proprietary, range up to 400 m (open field)							
Bluetooth Technology	BLE 4.0 range up to 30 m (open field)							
Operating temperature	-20 °C to +50 °C							
Sample rate	4 Hz, up to 32 Hz in "Peak Hold"							
IP Protection	I.P 64 (I.P 67 in option)							
Sensor head material	Steel							
Sensor body material	Aluminium						Steel	
Dimensions (mm)	A	248	248	248	248	290	341	
	B	224	224	224	224	254	296	
	C	Ø20	Ø20	Ø20	Ø20	Ø28	Ø28	Ø40
	D	10	10	10	10	16	16	20
	E	24	24	24	24	35	35	54
	F	80	80	80	80	80	80	80
	G	100	100	100	100	100	100	100

**CODES**

Code	Description	EAN Code
293299	dynafor™ Expert 0,5T	3600232932994
293309	dynafor™ Expert 1T	3600232933090
293319	dynafor™ Expert 2T	3600232933199
293329	dynafor™ Expert 3,2T	3600232933298
293339	dynafor™ Expert 5T	3600232933397
293349	dynafor™ Expert 6,3T	3600232933496
293359	dynafor™ Expert 10T	3600232933595