



## AIRPORTS & HELIPORTS

### AIRFIELD GROUND LIGHTING SYSTEMS

## VISIONS GOALS



Dear Friends,

In the period ahead, our company will focus on the development of a complete range of LED lights. The benefits of this technology lie mainly in the significant reduction of power consumption but also importantly in its lower operating and maintenance costs.

In the meantime, we are continuing to develop and produce halogen lights because they are more suitable for rough winter conditions due to their physically natural warming. We are going to develop all of our products with a focus on simplicity of construction and composition from fully recyclable materials.

In the upcoming period, our software department will focus on the development of smart control software that will also help to significantly reduce the cost of airport expenses.

We are confident that these intended steps will place us among the international leaders in our industry in the area of sustainability.



elevated LED light

I have currently been expanding our team of employees with young people who offer new ideas and, together with the language training organised by our company, a guarantee of good international cooperation for many years to come - in the areas of sales, spare parts supply and service.

Check our website [www.transcon.cz](http://www.transcon.cz) for the latest information on products, certificates and our verified and supported business partners.

Sincerely,  
Vladimír Drábek  
CEO, Transcon ES



## NEW AIRPORT LED LIGHTS

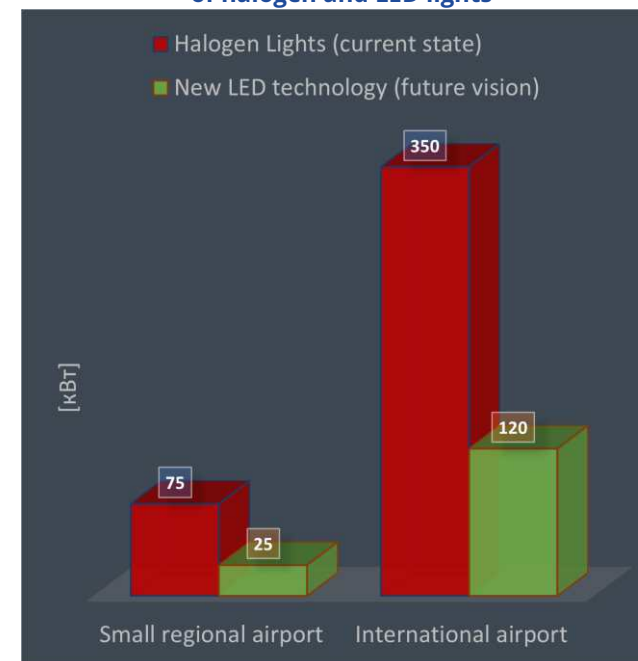
CAREFULLY DESIGNED LIGHTS WITH A FOCUS ON SIMPLE CONSTRUCTION, REPAIRABILITY, MAINTENANCE AND FULLY RECYCLABLE MATERIALS

- Direct energy savings due to LED technology combined with superior intensity control achieve up to **70% savings**.
- Lower consumption also means material and energy savings on the construction of infrastructure such as substation buildings, backup power supplies, cables, transformers, distributors ...etc
- The development of long-life lights will reduce the

waste of material and energy.

- By designing LIGHTS with easy repairability, waste production is minimised as well.
- Using easily recyclable materials such as nonferrous metals and glass helps to save the environment.
- Unification of components reduces inventory and allows users to make recycling exchanges of components between various products.

Graph comparing the performance of halogen and LED lights



## AMS AIRPORT CONTROL SYSTEM

SMART CONTROL SW WILL HELP TO ENSURE A REDUCTION IN AIRPORT OPERATING COSTS



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## AIRPORTS & HELIPORTS

### AIRFIELD GROUND LIGHTING SYSTEMS

TRANSCON ELECTRONIC SYSTEMS is a independent private company established in 1990. We provide custom turn-key solutions for aerodrome and heliport lighting systems with all required hardware and software, as well as power supply and monitoring systems, customized mobile and stationary airports and heliports in standard container modules, complete modular solutions for small regional airports etc.

TRANSCON company has its own highly skilled group of professional hardware and software developers, own production workshops, prototyping labs, optical lab, service department etc. Our development, production and services are certified in accordance with standard quality control systems ISO 9001: 2016, ISO 14001: 2016 and ISO 45001:2018.

TRANSCON company provides non-stop customer service for all installed equipment worldwide, as well as on-line support service for its software solutions. Our customers' operators and service staff can be trained and officially certified in our specially equipped Training center in Czech Republic.

Custom turn-key solutions supplied by TRANSCON are highly modular, which makes their everyday usage, operation, servicing and future upgrades very easy and comfortable. As a part of our solutions we offer also a technical inspection and assessment of existing state of the airport or heliport, and - based on its results - we recommend an optimal and customized technical solution (project), as well as funding (if required).

TRANSCON products are certified in compliance with ICAO, FAA, STANAG, MAK and FAVT requirements.

TRANSCON products are already installed and used every day at more than 280 civil and military airports and heliports worldwide, including Czech Republic, Slovakia, Russian Federation, Poland, Germany, United Kingdom, Belarus, Ukraine, Kazakhstan, Estonia, Latvia, Georgia, Armenia, Azerbaijan, Serbia, Croatia, Bosnia and Herzegovina, Montenegro, Mongolia, Egypt, Libya, Republic of South Africa, Kingdom of Saudi Arabia, Sri Lanka, Uruguay etc.



inset LED light

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HELIPORT

● HAPP ● FATO ● TLOF ● TWY ● FPAG ● HELIPORT BEACON

**TLE20**  
AP  
FATO  
HAPP  
TLOF  
TWY

**TLI42 (8" | 3,5 mm)**  
FATO, TLOF  
TWY, FPAG

**THF-25**  
LED Surface Floodlight  
for helipads and airport areas

**TLB1-H**  
heliport beacon

TAXIWAY

● EREX ● REL ● SBL ● RGL ● TCL ● TWY

**TLE20**  
TWY

**TLE23**  
TWY

**TLI42 (8" | 3,5 mm)**  
SBL, TCL (RVR >350 m)  
TWY

**TLI50 (8" | 6,35 mm)**  
straight and curved  
EREX, REL, SBL, RGL  
TCL (RVR <350 m)

**TLI81 (12" | 6,35 mm)**  
RGL

**TLE27**  
RGL

**TLE21**  
SBL

PAPI/APAPI

**TLP90**

OBSTRUCTION LIGHTS

●

**ML 125.2-OA/OB**

**TLE200-OB**

**HELIPORT:**  
**AP** - aiming point lights  
**FATO** - final approach and take-off area lights  
**HAPP** - approach lights  
**TLOF** - touch-down and lift-off area lights  
**TWY** - taxiway edge lights  
**FPAG** - flight path alignment guidance lighting

**APPROACH**  
**APP** - approach centre line and crossbars lights  
**ASR** - approach side row lights  
**SFL** - sequenced flashing lights  
**TIL** - runway threshold identification lights

**TAXIWAY:**  
**EREX** - enhanced rapid exit taxiway lights  
**REL** - RWY entrance lights (RWSL)  
**SBL** - TWY stop bar lights  
**RGL** - RWY guard lights  
**TCL** - TWY centre line lights (straight and curved section)  
**TWY** - TWY edge lights

UNSERVICEABILITY LIGHTS

**ML 125.2-UL**

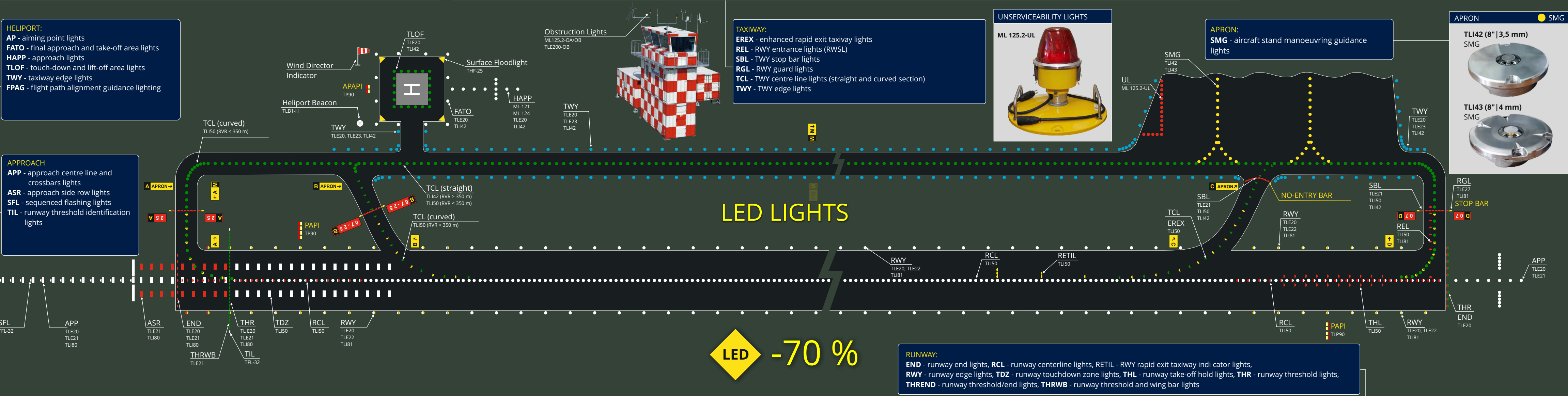
**APRON:**  
**SMG** - aircraft stand manoeuvring guidance lights

APRON

● SMG

**TLI42 (8" | 3,5 mm)**  
SMG

**TLI43 (8" | 4 mm)**  
SMG



APPROACH HIGH INTENSITY

● ASR ● APP ● SFL ● TIL

**TLE21**  
APP, ASR

**TLI80 | TFL-32.LI**  
(12" | 6,35 mm)  
APP, ASR | SFL, TIL

**TFL-32.LE**  
SFL, TIL

LETIŠTNÍ ZNAKY

**TZP-E**  
**TZP-R**  
**TZP-D**  
**TZP-ED**  
**PDZ01**

**F D →**

RUNWAY

● END ● RCL ● RETIL ● RWY ● TDZ ● THL ● THR ● THREND

**TLE20**  
END, RWY  
THR, THREND

**TLE21**  
END, THR  
THRWB

**TLE22**  
RWY

**TLI50 (8" | 6,35 mm)**  
RCL, RETIL  
TDZ, THL

**TLI80 (12" | 6,35 mm)**  
END, THR  
THREND, THRWB

**TLI81 (12" | 6,35 mm)**  
RWY

APPROACH LOW AND MEDIUM INTENSITY

**TLE20**  
APP

**TLE22**  
APP





## AIRPORTS & HELIPORTS TURNKEY PROJECT

TRANSCON is world's only company which successfully managed to conceive, design, manufacture and install comprehensive modular solutions for regional airports of virtually any type, category and size. Our unique regional airport modular program consists of following main segments and technologies:

- modular ATC towers (standard or double version) - fully equipped, including transceivers, meteo-stations, voice-recorders, remote control and monitoring systems etc.
- modular passenger terminals (departure/arrival) - fully equipped, including passenger luggage conveyors, check-in counters with scales, security check in systems, passenger information systems, all utilities etc.
- modular hangars for airport handling and service equipment
- modular fire-fighting and ambulance stations
- modular redundant power supply systems

### Advantages of Modular airport solutions:

- high reliability, easy and rapid installation (typical regional airport can be usually put into operation within 9 months)
- life-span of approximately 20 years
- comprehensive solution
- reasonable price

We offer various types of modular terminals for up to 200 passengers during peak hours.

### For regional airports, we can also offer following services:

- planning and design
- construction/reconstruction of runways, taxiways or aprons
- installation of aerodrome lighting and navigation systems
- comprehensive modular systems as mentioned above
- customized on-site training with optional certification
- financing services (in cooperation with Czech Insurance Agency)
- commissioning etc.



## HELIPORTS & MOBILE TRAILERS TURNKEY PROJECT

### Transport

- all modules are standard ISO containers
- transportable by trucks, railways, ships or airplanes
- handling by standard equipment (cranes, lift trucks, hydraulic jibs etc.)

### Dimensions and technical parameters

- ISO containers (length 20, 30, 40 feet)
- special welded corrosion-resistant structures
- wide range of operating temperatures

### Lighting power supply types

- parallel (voltage) - simple and low-cost, suitable for small heliports only
- serial (current) - 6.6 A system, suitable for heliports of any type and size



COMPLETE TRAILERS WITH LIGHTS, WIND DIRECTION INDICATOR AND GENERATOR SET FOR HELIPORTS



COMPLETE AND FULLY EQUIPPED MOBILE AND STATIONARY HELIPORT SETS





HELIPORT

● HAPP ● FATO ● TLOF ● TWY ● FPAG ● HELIPORT BEACON

**ML 121**  
FATO  
HAPP  
TLOF  
TWY

**ML 124**  
FATO  
HAPP  
TLOF  
TWY

**TI42 (8" | 3,5 mm)**  
FATO, TLOF  
TWY, FPAG

**FL111**  
heliport beacon

TAXIWAY

● EREX ● REL ● SBL ● RGL ● TCL ● TWY

**ML 122**  
TWY

**TL 322**  
TWY

**TI42 (8" | 3,5 mm)**  
SBL, TCL (RVR >350 m)  
TWY

**TI44 (8" | 6,35 mm)**  
straight  
EREX, REL, SBL, RGL  
TCL (RVR <350 m)

**TI45 (8" | 6,35 mm)**  
curved  
SBL, TCL (RVR <350 m)

**TI70 (12" | 12,5 mm)**  
RGL

**SBL-02**  
SBL

**RGL-02**  
RGL

PAPI/APAPI

**TP90**

OBSTRUCTION LIGHTS

●

**ML 121 HP-O**

**ML 124 P-O**

**HELIPORT:**  
**FATO** - final approach and take-off area lights  
**HAPP** - approach lights  
**TLOF** - touch-down and lift-off area lights  
**TWY** - taxiway edge lights  
**FPAG** - flight path alignment guidance lighting

**APPROACH**  
**APP** - approach centre line and crossbars lights  
**ASR** - approach side row lights  
**SFL** - sequenced flashing lights  
**TIL** - runway threshold identification lights

**TAXIWAY:**  
**EREX** - enhanced rapid exit taxiway lights  
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**TCL** - TWY centre line lights (straight and curved section)  
**TWY** - TWY edge lights

UNSERVICEABILITY LIGHTS

**ML 121 UL**

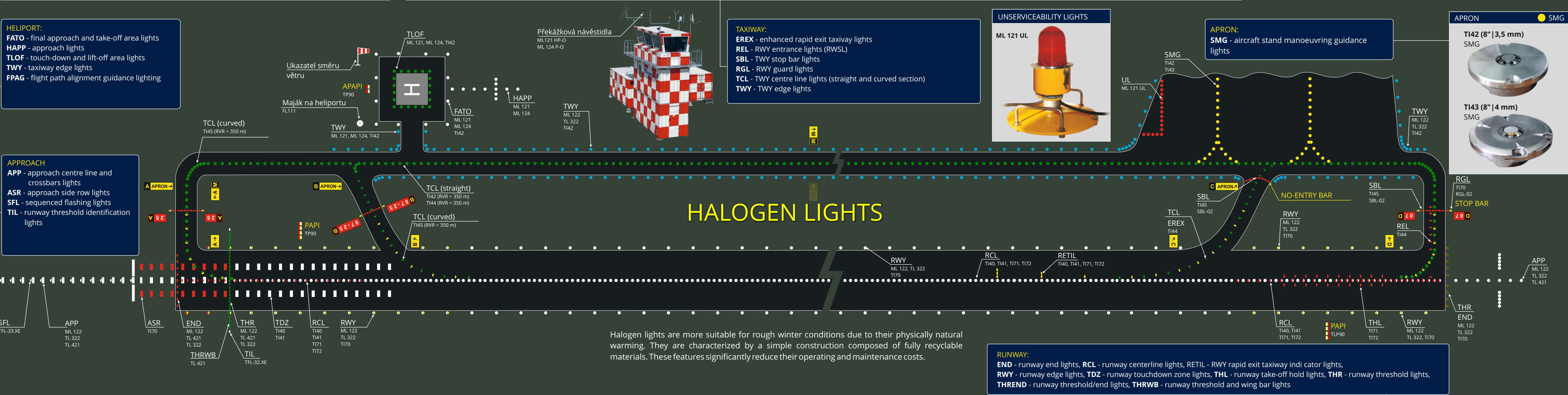
**APRON:**  
**SMG** - aircraft stand manoeuvring guidance lights

APRON

● SMG

**TI42 (8" | 3,5 mm)**  
SMG

**TI43 (8" | 4 mm)**  
SMG



Halogen lights are more suitable for rough winter conditions due to their physically natural warming. They are characterized by a simple construction composed of fully recyclable materials. These features significantly reduce their operating and maintenance costs.

**RUNWAY:**  
**END** - runway end lights, **RCL** - runway centerline lights, **RETIL** - RWY rapid exit taxiway indicator lights, **RWY** - runway edge lights, **TDZ** - runway touchdown zone lights, **THL** - runway take-off hold lights, **THR** - runway threshold lights, **THREND** - runway threshold/end lights, **THRWB** - runway threshold and wing bar lights

APPROACH HIGH INTENSITY

● ASR ● APP ● SFL ● TIL

**TI70 (12" | 12,5 mm)**  
APP, ASR

**TL 421**  
APP, ASR

**TFL-32.XE**  
SFL, TIL

AIRPORT SIGNS

**TZP-E**  
**TZP-R**

**F 01-19**

**C ← G →**

RUNWAY

● END ● RCL ● RETIL ● RWY ● TDZ ● THL ● THR ● THREND

**ML 122**  
END  
RWY  
THR  
THREND

**TL 421**  
END, THR  
THRWB

**TI40 (8" | 9,35 mm)**  
RCL, RETIL  
TDZ, THL

**TI41 (8" | 6,35 mm)**  
RCL, RETIL  
TDZ, THL

**TI70 (12" | 12,5 mm)**  
END, RWY, THR  
THREND

**TI71 (12" | 6,35 mm)**  
**TI72 (12" | 9,35 mm)**  
RCL, RETIL, TDZ, THL

APPROACH LOW AND MEDIUM INTENSITY

●

**ML 122**  
APP

**TL 322**  
APP