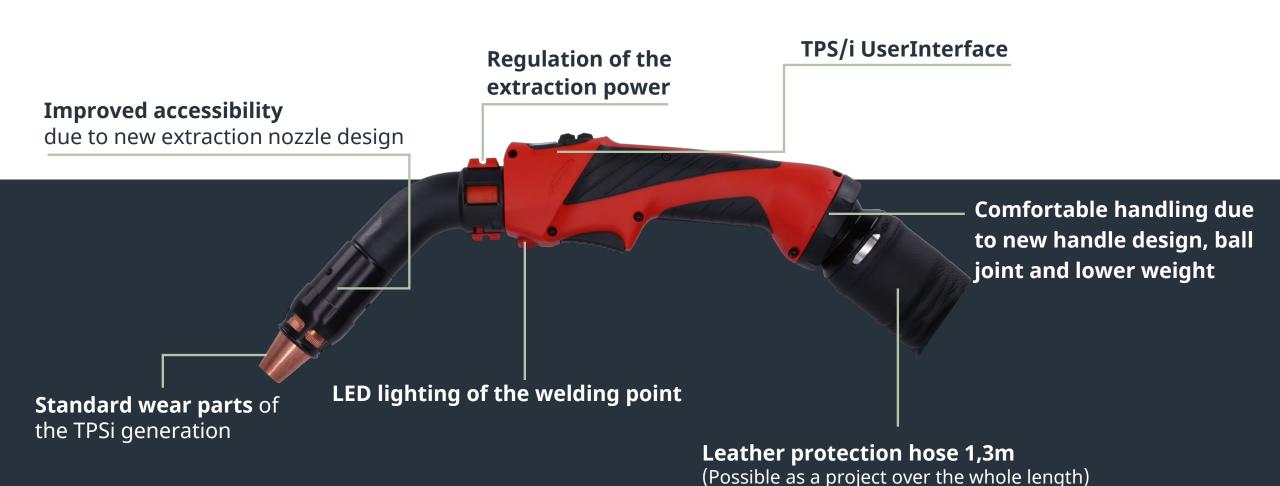




## MTW/MTG Exento Fume Extraction Torch



### Accessibility | Energy Saving



#### **Improved accessibility:**

Even without extraction nozzle, the standard EN ISO 21904-1 is fulfilled. Therefore best accessibility.



### With extraction nozzle 10% energy saving

Extraction nozzle for best energy- and extraction efficiency.

### Regulation of the Extraction Power on the Welding Torch

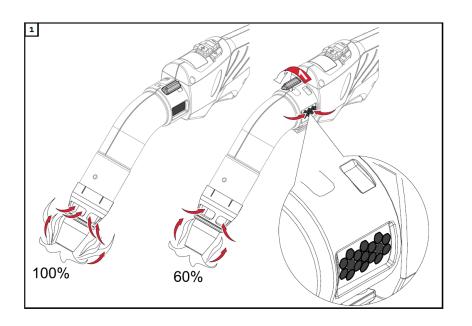


Closed: Standard setting



Open

- Opening the bypass slider reduces the extraction rate by approx. 40%.
- Application example: prevents extraction of shielding gas in corners or narrow welding spots



### UserInterface

**Standard** 



**UpDown** 



**JobMaster** 



Torch trigger top

(Possible as a project)



# LED Lighting of the Welding Point

Lighting of the welding point before and after welding

Control via two-step torch trigger

# Standard Wear Parts of the TPSi Generation



### Exento Extraction Torches Fulfill the Norm EN ISO 21904-1

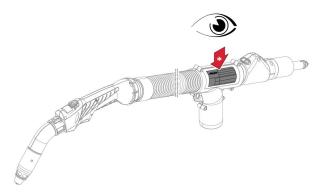
 Extraction torches capture and separate welding fumes directly where they are generated.

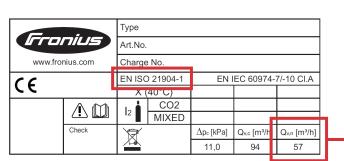
They fulfill the requirements of the EN ISO
 21904-1 norm for occupational health and safety in welding and allied processes.



# Option "Exentometer" 44,0350,2079

- The measuring tube is used for precise adjustment of the optimum extraction power
- The optimum extraction rate depends on many things,
  welding process, power, material, welded parts....
- Example MTG 400i: According to the norm, a value of at least 57 m³/h extraction rate must be set here.
  (The value can be found on the rating plate)







### Check

- Each Exentometer is checked before delivery.
- The upper Exentometer is designed as a testing device at Fronius and is checked once a year.
- The lower Exentometer is a new one which is tested
- Tested with 55 m³/h
- Tolerance is between +/- 5m<sup>3</sup>/h



Testing device

New one which is tested

### Variants & Technical Data

#### Gas cooled:

- MTG 250i Exento 250A 40% DC (Gas nozzle ø22mm)
- MTG 320i Exento 320A 40% DC (Gas nozzle ø25mm)
- MTG 400i Exento 400A 40% DC (Gas nozzle ø25mm)

#### Water cooled:

- MTW 300i Exento 300A 100% DC (Gas nozzle ø22mm)
- MTW 500i Exento 500A 40% DC (Gas nozzle ø25mm)



Welding torch lengths: 3,5m and 4,5m

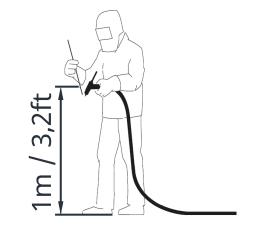
### Weight

#### Gas cooled:

- MTG 250i Exento
- MTG 320i Exento
- MTG 400i Exento

#### Water cooled:

- MTW 300i Exento
- MTW 500i Exento



Manual weight: 1,4 kg

Manual weight: 1,7 kg

Manual weight: 1,75 kg

Manual weight: 1,33 kg

Manual weight: 1,42 kg

3,5m | 4,5m

Net weight: 3,34 kg | 3,77 kg

Net weight: 4,08 kg | 4,69 kg

Net weight: 4,15 kg | 4,85 kg

Net weight: 3,01 kg | 3,36 kg

Net weight: 3,62 kg | 4,11 kg

### Central connectors

#### **FSC** for TPS/i and TransSteel power sources

- TPSi supports Standard, UpDown and JobMaster
- TransSteel supports Standard and UpDown

#### **Euro** Connector

- With part number only Standard UserInterface
- As a project also UpDown possible
  - For Fronius power sources with Tuchel control plug
  - For competitor power sources with 3-pole control line without control plug

#### Adapter FSC to F/F++ and Euro for TPS power sources

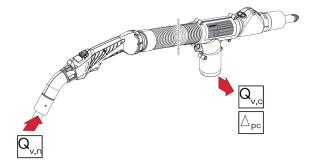
- Standard and UpDown possible
- Note: BasicKits with .000 or .001 to be ordered as well







### Part numbers



Variants	Part numbers	Description	User interface	Available with Euro connector ending in ,001	Qv,n [m³/h]	Qv,c [m³/h]	Δpc [kPa]
MTG 250i Exento	4,036,454 4,036,455 4,036,456 4,036,457 4,036,458 4,036,459	MTG 250i Exento/FSC/3,5m MTG 250i Exento/FSC/4,5m MTG 250i Exento/FSC/UD/3,5m MTG 250i Exento/FSC/UD/4,5m MTG 250i Exento/FSC/JM/3,5m MTG 250i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X	52	70 80 70 80 70 80	10,0 10,8 10,0 10,8 10,0 10,8
MTG 320i Exento	4,036,460 4,036,461 4,036,462 4,036,463 4,036,464 4,036,465	MTG 320i Exento/FSC/3,5m MTG 320i Exento/FSC/4,5m MTG 320i Exento/FSC/UD/3,5m MTG 320i Exento/FSC/UD/4,5m MTG 320i Exento/FSC/JM/3,5m MTG 320i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X	57	90 94 90 94 90 94	10,2 11,0 10,2 11,0 10,2 11,0
MTG 400i Exento	4,036,466 4,036,467 4,036,468 4,036,469 4,036,470 4,036,471	MTG 400i Exento/FSC/3,5m MTG 400i Exento/FSC/4,5m MTG 400i Exento/FSC/UD/3,5m MTG 400i Exento/FSC/UD/4,5m MTG 400i Exento/FSC/JM/3,5m MTG 400i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X	57	90 94 90 94 90 94	10,2 11,0 10,2 11,0 10,2 11,0
MTW 300i Exento	4,036,472 4,036,473 4,036,474 4,036,475 4,036,476 4,036,477	MTW 300i Exento/FSC/3,5m MTW 300i Exento/FSC/4,5m MTW 300i Exento/FSC/UD/3,5m MTW 300i Exento/FSC/UD/4,5m MTW 300i Exento/FSC/JM/3,5m MTW 300i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X	52	95 100 95 100 95 100	13,5 15,0 13,5 15,0 13,5 15,0
MTW 500i Exento	4,036478 4,036,479 4,036,480 4,036,481 4,036,482 4,036,483	MTW 500i Exento/FSC/3,5m MTW 500i Exento/FSC/4,5m MTW 500i Exento/FSC/UD/3,5m MTW 500i Exento/FSC/UD/4,5m MTW 500i Exento/FSC/JM/3,5m MTW 500i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X	57	100 105 100 105 100 105	11,9 14,0 11,9 14,0 11,9 14,0

# Option "Pistol Grip" 44,0350,2169

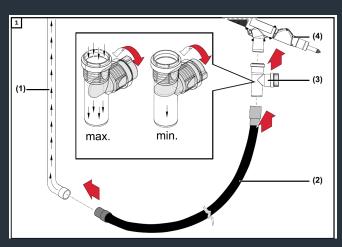
- We start with a 3D printed variant
- Material: Fiberglass reinforced plastic
- CE requirements were fulfilled
- Feedback on the design is welcome
- If all requirements are known and the request is big enough we will make an injection mold



# Option "Air Regulator" 44,0350,2082

- For setting the extraction power for central extraction systems
- Is simply mounted between welding torch and extraction hose
- The throttle valve can be easily turned from max. to min. and vice versa from the outside





(1) central extraction system, (2) extraction hose, (3) external air flow regulator, (4) welding torch

### Option Torch Holder

With start/stop switch for extraction unit

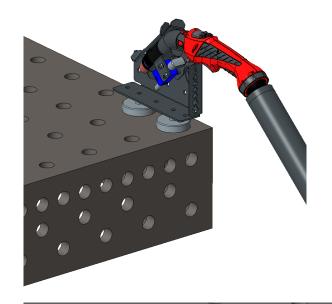
 As soon as the torch is removed from the holder, the extraction unit or a pneumatic slide valve in central extraction systems switches on.
 (pay attention to the performance of the switch)

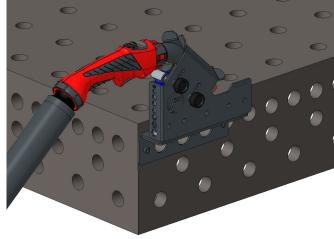




Pneumatic slide valve

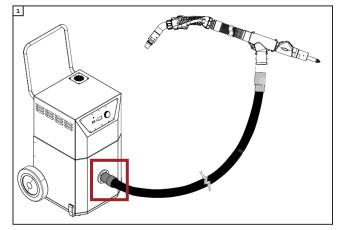
- Full extraction power right at the start of the welding process
- Torch holder is fixed to the workstation either with magnets or with screws
- Part number: 44,0350,4515

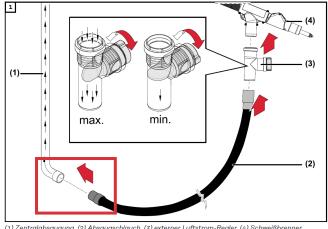




### Extraction Hose

Item number	Description
42,0510,0481	HV extraction hose ø44mm 2,5m
42,0510,0482	HV extraction hose ø44mm 5m
42,0510,0489	HV extraction hose ø63mm 5m
42,0510,0490	HV extraction hose ø63mm 7,5m
42,0510,0483	HV extraction hose ø63mm 10m
42,0510,0491	Reducer 63/44mm IT/IT





(1) Zentralabsaugung, (2) Absaugschlauch, (3) externer Luftstrom-Regler, (4) Schweißbrenne



#### Note:

When using third-party products or a central exhaust system, the customer is responsible for the correct connection.

### Timeline Welding Torches

Variants	Part numbers	Description	User interface	Available from 5 September 2022	Available from 3 April 2023
MTG 250i Exento	4,036,454 4,036,455 4,036,456 4,036,457 4,036,458 4,036,459	MTG 250i Exento/FSC/3,5m MTG 250i Exento/FSC/4,5m MTG 250i Exento/FSC/UD/3,5m MTG 250i Exento/FSC/UD/4,5m MTG 250i Exento/FSC/JM/3,5m MTG 250i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X X X	X X
MTG 320i Exento	4,036,460 4,036,461 4,036,462 4,036,463 4,036,464 4,036,465	MTG 320i Exento/FSC/3,5m MTG 320i Exento/FSC/4,5m MTG 320i Exento/FSC/UD/3,5m MTG 320i Exento/FSC/UD/4,5m MTG 320i Exento/FSC/JM/3,5m MTG 320i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X X	X X
MTG 400i Exento	4,036,466 4,036,467 4,036,468 4,036,469 4,036,470 4,036,471	MTG 400i Exento/FSC/3,5m MTG 400i Exento/FSC/4,5m MTG 400i Exento/FSC/UD/3,5m MTG 400i Exento/FSC/UD/4,5m MTG 400i Exento/FSC/JM/3,5m MTG 400i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X X	X X
MTW 300i Exento	4,036,472 4,036,473 4,036,474 4,036,475 4,036,476 4,036,477	MTW 300i Exento/FSC/3,5m MTW 300i Exento/FSC/4,5m MTW 300i Exento/FSC/UD/3,5m MTW 300i Exento/FSC/UD/4,5m MTW 300i Exento/FSC/JM/3,5m MTW 300i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X X X	X X
MTW 500i Exento	4,036478 4,036,479 4,036,480 4,036,481 4,036,482 4,036,483	MTW 500i Exento/FSC/3,5m MTW 500i Exento/FSC/4,5m MTW 500i Exento/FSC/UD/3,5m MTW 500i Exento/FSC/UD/4,5m MTW 500i Exento/FSC/JM/3,5m MTW 500i Exento/FSC/JM/4,5m	Standard Standard Up/Down Up/Down JobMaster JobMaster	X X X	X X





All information is without guarantee in spite of careful editing – liability excluded.

Intellectual property and copyright: all rights reserved. Copyright law and other laws protecting intellectual property apply to the content of this presentation and the documentation enclosed (including texts, pictures, graphics, animations etc.) unless expressly indicated otherwise. It is not permitted to use, copy or alter the content of this presentation for private or commercial purposes without explicit consent of Fronius.

