







Torque Reaction Arms | Up to 50 Nm

Support arms manoeuvre smoothly as they absorb the torque reactions from the screwdrivers providing ergonomic support for the operator. They reduce RMI (Repetitive Motion Injury) and CTS (Carpal Tunnel Syndrome) while boosting production.

Folding and Linear Torque Reaction Arm Series

Torque folding arms have been designed to eliminate the reaction generated by screwdrivers when they stop at the pre-set torque. Options include table or wall mount.

Linear arms keep the tool perpendicular and prevent cross threading and side load. Each model extends in horizontal direction and arm length is adjustable. The fluid movement increases precision and production for a variety of torque applications.

Telescopic Carbon Arm Series

CAR series torque reaction arms eliminate the reaction that screwdrivers generate when they stop at the pre-set torque (up to 50 Nm). Their carbon structure makes them extremely lightweight and incredibly resistant at the same time. This means that they resist degradation in high fatigue applications much better than conventional materials.

Suspended Torque Arm Series

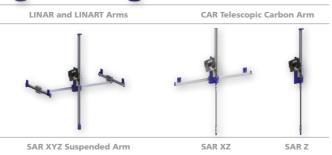
SAR Suspended Torque Arms are the ideal solution to increase productivity. They can be easily installed on most workplaces to help the operator handle the screwdriver in total safety and stability while keeping the workspace clear. With minimized reaction force you will also improve finished product quality because there is no movement of the tool and all torque is absorbed in the joint.

Three models available, depending on the motion of the axes. SAR arms are supplied without tool holder – to be purchased depending on the screwdriver used (see chart on the next page).

Support arm models









Folding and Linear Torque Reaction Arms

•	Code	Model	Arm Weight kg	Max Payload kg	Min Reach mm	Max Reach mm	Max Torque Nm
C	10600	PA2KOL	2.5	1.5	440	640	20
0	10602	PA7KOL	4.2	10*	500	950	50
0	10603	PS7KOL	5.3	10*	300	1000	50
0	10681	LINAR1	1.5	1.5	184	665	25
0	10682	LINAR2	1.5	1.5	184	665	50
0	10683	LINART	1.6	1.4	114	740	25

^{*} Required payload is to be specified with order

Folding and Linear Torque Reaction Arms with Autoadvance Kit

Code	Model	Arm Weight kg	Piston Stroke mm	Min Reach mm	Max Reach mm	Max Torque Nm
010682/A	LINAR2/A	6.1	0 - 50	184	665	50
Autoadvance kit						
020099	The Autoadvance kit can be	supplied separately – to be inst	alled on LINAR2 and LINART to	convert them into /A models.		

Telescopic Torque Reaction Arms

Code	Model	Arm Weight kg	Max Payload kg	Min Reach mm	Max Reach mm	Max Torque Nm
010661	CAR101	0.20	2.7	549	906	10
010663	CAR281	0.60	2.7	490	950	25
010664	CAR282	0.75	2.7	730	1650	25
010665	CAR501	0.65	2.7	490	950	50
010666	CAR502	0.80	2.7	730	1650	50

Suspended Torque Arms

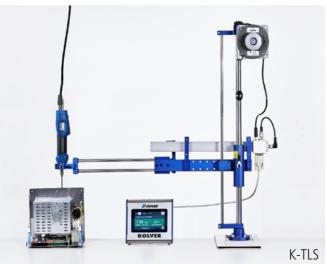
Model	Arm Weight kg	Max Payload kg	Vertical Z Stroke mm	Horizontal X Stroke mm	Lateral Y Stroke mm	Max Torque Nm
SAR15 Z	1.2	1.8	364	-	-	15
SAR15 XZ 85	1.2	1.8	364	692	-	15
SAR15 XYZ 855	1.7	1.3	885	692	376	15
Tool holders for SAR arms						
Tool holder for PLUTO and RAF series inline screwdrivers						
Tool holder for FAB, NATO & MITO series inline screwdrivers						
Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)						
Universal Tool Holder for any screwdriver (max diametre 47 mm)						
	SAR15 Z SAR15 XZ 85 SAR15 XYZ 855 AR arms Tool holder for PLUTO and P Tool holder for FAB, NATO 8 Tool holder for right angle P	SAR15 Z 1.2 SAR15 XZ 85 1.2 SAR15 XYZ 855 1.7 AR arms Tool holder for PLUTO and RAF series inline s Tool holder for FAB, NATO & MITO series inline tool holder for right angle PLUTO screwdrive	SAR15 Z 1.2 1.8 SAR15 XZ 85 1.2 1.8 SAR15 XYZ 855 1.7 1.3 AR arms Tool holder for PLUTO and RAF series inline screwdrivers Tool holder for FAB, NATO & MITO series inline screwdrivers Tool holder for right angle PLUTO screwdrivers (up to 15 Nm	SAR15 Z 1.2 1.8 364 SAR15 XZ 85 1.2 1.8 364 SAR15 XYZ 855 1.7 1.3 885 AR arms Tool holder for PLUTO and RAF series inline screwdrivers Tool holder for FAB, NATO & MITO series inline screwdrivers Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)	SAR15 Z	SAR15 Z 1.2 1.8 364 SAR15 XZ 85 1.2 1.8 364 692 - SAR15 XYZ 855 1.7 1.3 885 692 376 AR arms Tool holder for PLUTO and RAF series inline screwdrivers Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)

IMPORTANT: A diameter reduction adapter (code 234545) is required when LINAR and CAR arms are used with PLUTO35 or PLUTO50 screwdrivers (Ø 57 mm).

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Positioning Arms | Up to 50 Nm

K-TLS, the smart positioning system for the K-DUCER!

K-TLS is Kolver's new intelligent positioning system for precision assembly, ensuring that every screw is not only fastened to the correct torque but also in the right position. The key innovation lies in its ability to be fully managed through the K-DUCER, eliminating the need for additional control units for arm positioning. With all the advanced features of the K-DUCER at your disposal, including connectivity and interoperability with MES and PLC systems, K-TLS simplifies the process.

By centralizing control within a single, intuitive interface, K-TLS enhances efficiency and ease of use, making error-proof assembly accessible to all.

- Plug-and-play connection with the K-DUCER
- Control unit integrated within the K-DUCER
- 24 sequences, 200 programs, and up to 150 screws per program
- High precision with programmable tolerance
- Connectivity with MES or PLC systems
- Real-time position data
- Compatible with CAR, LINAR1, LINAR2, LINART, and SAR XYZ arms
- Use two arms and screwdrivers simultaneously with a single K-DUCER via Dock05.

TLS1 positioning system

For all of our other screwdrivers, the TLS1 is an intelligent system that error-proofs your assembly ensuring that every screw is in the correct location at the right torque.

The TLS1 control unit, connected to the desired arm and screwdriver controller, allows the user to program assembly sequences and X-Y coordinates for each screw with its integrated keypad.

Fastening programs are automatically selected and enabled from the screwdriver controller based on the TLS1 Arm locations and current sequence step. No PC is required.

Note: if a plug-and-play solution that is integrated directly into the screwdriver controller is needed, we recommend the K-TLS.

- 8 programs, and up to 35 screws per program
- Screw position (length/angle) with accuracy: length ± 1 mm; angle $\pm 1^{\circ}$.
- Programmable tolerance and manual reset.
- Password protected.
- External keyboard and serial port for easy programming and statistics.
- Compatible with CAR, LINAR1, LINAR2, LINART, and SAR XYZ arms

TLS1 Positioning arm models TLS1/LINAR1 and TLS1/LINAR2 TLS1/CAR Positioning Carbon Arm TLS1/LINART Positioning Folding Arm TLS1/SAR XYZ Suspended Arm



Positioning Arms / K-TLS and TLS1 Series

Folding and Linear Positioning Arms

Code	Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension	
010681/K-TLS	LINAR1/K-TLS	25	184	665	6 mm	
010682/K-TLS	LINAR2/K-TLS	50	184	665	6 mm	
010683/K-TLS	LINART/K-TLS	25	114	740	7 mm	
Code	Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension	
010681/TLS1	LINAR1/TLS1	25	184	665	6 mm	
010681/TLS1 010682/TLS1	LINAR1/TLS1 LINAR2/TLS1	25 50	184 184	665 665	6 mm	

Linear Positioning Arms with Autoadvance Kit

Code	Model	Arm Weight kg	Piston Stroke mm	Min Reach mm	Max Reach mm	Min distance between screws at max ext
010682/K-TLS/A	LINAR2/K-TLS/A	50	0 - 50	184	665	6
Code	Model	Arm Weight kg	Piston Stroke mm	Min Reach mm	Max Reach mm	Min distance between screws at max ext
010682/TLS1/A	LINAR2/TLS1/A	50	0 - 50	184	665	6
Autoadvance kit						
020099	Autoadvance kit can be supp	plied separately.				

Telescopic Positioning Arms

Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension	
CAR281/K-TLS	25	490	950	9 mm	
CAR282/K-TLS	25	730	1650	15 mm	
CAR501/K-TLS	50	490	950	9 mm	
CAR502/K-TLS	50	730	1650	15 mm	
Model	Max Torque Nm	Min Reach mm	Max Reach mm	Min distance between screws at max extension	
CAR281/TLS1	25	490	950	9 mm	
CAR282/TLS1	25	730	1650	15 mm	
CAR501/TLS1	50	490	950	9 mm	
		730	1650	15 mm	
	CAR281/K-TLS CAR282/K-TLS CAR501/K-TLS CAR502/K-TLS Model CAR281/TLS1 CAR282/TLS1 CAR501/TLS1	CAR281/K-TLS 25 CAR282/K-TLS 25 CAR501/K-TLS 50 CAR502/K-TLS 50 Model Max Torque Nm CAR281/TLS1 25 CAR282/TLS1 25	CAR281/K-TLS 25 490 CAR282/K-TLS 25 730 CAR501/K-TLS 50 490 CAR502/K-TLS 50 730 Model Max Torque Nm Min Reach mm CAR281/TLS1 25 490 CAR282/TLS1 25 730 CAR501/TLS1 50 490	CAR281/K-TLS 25 490 950 CAR282/K-TLS 25 730 1650 CAR501/K-TLS 50 490 950 CAR502/K-TLS 50 730 1650 Model Max Torque Nm Min Reach mm Max Reach mm CAR281/TLS1 25 490 950 CAR282/TLS1 25 730 1650 CAR501/TLS1 50 490 950	

Suspended Positioning Arms

Code	Model	Max Torque Nm	Arm Weight kg	Vertical Stroke Z mm	Vertical Stroke X mm	Vertical Stroke Y mm	
010690/XYZ/K-TLS	SAR15 XYZ/K-TLS	15	8	885	692	376	
Code	Model	Max Torque Nm	Arm Weight kg	Vertical Stroke Z mm	Vertical Stroke X mm	Vertical Stroke Y mm	
010690/XYZ/TLS1	SAR15 XYZ/TLS1	15	8	885	692	376	
Tool holders for S	AR arms						
010695	Tool holder for PLUTO and RAF series inline screwdrivers						
010698	Tool holder for FAB, NATO & MITO series inline screwdrivers						
010695/P	Tool holder for right angle PLUTO screwdrivers (up to 15 Nm)						
010695/UNI	Universal Tool Holder for any screwdriver (max diametre 47 mm)						

For all of our TLS1 arms, one of the following cables must be specified at time of purchase:

260003/1	Cable to connect TLS system to EDU1FR/SG controller
260004/1	Cable to connect TLS system to EDU1BI/SG, EDU2AE, EDU2AE/HPro, EDU2AE/TOP or EDU2AE/TOP/TA controller
260004/KDU	Cable to connect TLS system to KDU controller

A diameter reduction adapter (code 234545) is required when LINAR and CAR arms are used with PLUTO35 or PLUTO50 screwdrivers (Ø 57 mm).

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